Bengal Secretariat Library Copy.
To be returned when done with.

# REPORT

ON

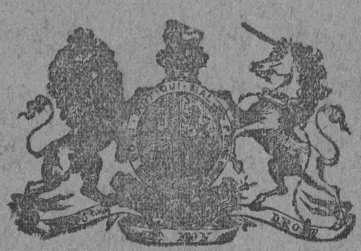
# Forest Administration

IN THE

# CENTRAL PROVINCES

FOR

THE YEAR 1886-87.



NAGPUR:

PRINTED AT THE CHIEF COMMISSIONER'S OFFICE PRESS.

1887.

[ PRICE ONE RUPEE. ]

X

No. 963F., dated Simla, the 10th October 1887.

From—SIR E C. BUCK, Secretary to the Government of India, Revenue and Agricultural Department,

To—The Chief Commissioner of the Central Provinces.

I AM directed to acknowledge the receipt of your letter No. $\frac{4063}{232}$, dated the 11th August last, forwarding the Report of Forest Administration in the Central Provinces for the year 1886-87, with your Resolution thereon. His Excellency the Governor General in Council is glad to acknowledge the punctuality with which the Report has been submitted.

2. The following statement shows the changes which took place in the area managed by the Provincial Forest Department during the year under review:—

| Class of Forests. | AREA, IN SQUARE MILES. | | | | Proportion of Forests to whole area of Province (84,445 square miles). |
|---|---|---|---|---|---|
| | At the commencement of the year. | Added. | Excluded. | At the close of the year. | |
| | | | | | Per cent. |
| 1st class Reserves ... | 3,505 | ... | ... | 3,505 | 4 |
| 2nd „ „ ... | 15,929 | .521 | ... | 16,450 | 20 |
| Total Reserves ... | 19,434 | 521 | ... | 19,955 | 24 |
| Unclassed State Forests | 404 | ... | ... | 404 | ... |
| Grand Total ... | 19 838 | 521 | ... | 20 359 | 24 |

With the exception of 723 acres added in the Nagpur and Nimar Districts, the addition of 521 square miles to the 2nd class Reserves was entirely due to the correction of discrepancies in the recorded area of the Mandla and Bilaspur Forests. The forest surveys now in progress will probably bring to light further errors in the records, which have hitherto, in the absence of accurate measurements, been based on estimates only.

3. The Government of India shares the regret you express that the area of 1st class Reserves has not been increased; but notes that work done during the year has led to some addition being made, since its close, to the area of forests of this class. Measures have been taken for the classification of the forests of each district into:—(A) those which are to be permanently maintained, and which require specially strict conservancy; (B) those which, though they are likewise to be permanently maintained, require less strict conservancy; and (C) those forests which may be considered available for the extension of cultivation. The importance of the early completion of this classification cannot, I am to say, be exaggerated; for until it has been effected, there is no security against the risk of land being given up for cultivation, which ought to be permanently maintained as forest. But I am to invite your attention to the remarks made in paragraph 3 of the review of the Report for 1885-86, and to add that the above measures alone are insufficient to ensure the progress which the Government of India desires to see in Forest Conservancy in the Central Provinces. The stricter conservation of forests in class (A) should, therefore, be seriously undertaken, and His Excellency in Council trusts that, an increase in the grant for subordinate establishments having now been sanctioned, the Report for the year 1887-88 will show that material progress has been made in this direction.

4. I am also to express satisfaction with the efficient manner in which the artificial boundary lines and boundary marks have been maintained; and of the progress reported in the demarcation of 2nd class Reserves, some of which work has been seen by you, and has met with your approval. The suggestion made by the Conservator of Forests, that the up-keep of the demarcation of these forests should be secured by an appropriate record, commends itself to the Government of India; this record might be suitably drawn up in connection with the surveys now in progress.

5. His Excellency in Council is confident that, as soon as it becomes possible to provide a special officer for the charge of Working-Plans, this important branch of work will be energetically prosecuted; but I am at the same time to invite your attention to the remarks made on this subject in the review of last year's Report, regarding the progress which it has been found possible to make in other provinces by means of the ordinary staff. Experience gained elsewhere has shown that wherever a Working-Plan has been framed, it has resulted in the immediate increase of net, as well as of gross, Revenue. Pending the preparation of such Plans for all forests that are to be permanently maintained, work must, I am to say, be guided by Annual Plans of Operations, which should, as suggested by the Conservator, be so framed as to be as useful as possible for purposes of control. With reference to the Valuation Surveys reported to have been carried out in the Topla, Keolikapa, and Bunjar forests, I am to request that the Government of India may be informed regarding the system followed and the size-classes of the trees counted. The species of trees enumerated in the Bunjar Forests should also be stated.

6. His Excellency the Governor General in Council feels no doubt that, as remarked by you, the increase recently sanctioned to the controlling staff and permanent conservancy establishments will tend to make the work of the Department more efficient. It cannot be denied that it has heretofore been undermanned.

7. As will be seen from the following statement regarding breaches of Forest Rules, the number of cases was considerably less than that for the previous year, but the proportion of convictions was smaller:—

| Year. | New Cases taken into Court. | Cases Compounded. | Total. | Proportion of Convictions to total number of Cases decided by the Courts. |
|---|---|---|---|---|
| | | | | Per cent. |
| 1886-87 ... ... | 422 | 6,264 | 6,686 | 79 |
| 1885-86 ... ... | 397 | 8,444 | 8,841 | 83 |
| Increase or decrease in 1886-87 | +25 | —2,180 | —2,155 | —4 |

The Government of India notices with approval that you propose to call for a special report on the prosecutions in the Betul District, which, you have reason to believe, were injudiciously undertaken.

8. The results of special measures taken for the protection of the forests from fire were as follows:—

| Year. | Area attempted. | Failures. | Area protected. | Proportion of Failures to area attempted. | Cost | | Proportion of area under Fire Protection to total area of Reserves. |
|---|---|---|---|---|---|---|---|
| | | | | | Per square mile protected. | Per acre protected. | |
| | Sq miles | Sq. miles. | Sq. miles. | Per cent. | Rs. | Pies. | Per cent. |
| 1886-87 ... ... ... | 1,556 | 115 | 1,441 | 7 | 13 | 4 | 8 |
| 1885-86 ... ... ... | 1,434 | 70 | 1,364 | 5 | 13 | 4 | 7 |
| Increase in 1886-87 ... ... | 122 | 45 | 77 | 2 | ... | ... | 1 |

The area under protection was increased by 122 square miles, or one per cent. of the total area of 1st and 2nd class Reserves. The proportion of failures has unfortunately increased; but I am to say that the fact has not escaped notice that the results obtained during 1885-86 were admitted to have been unprecedentedly good. The statement of areas which, though not specially protected, escaped burning, is said to be of doubtful accuracy; and the Government of India desires that the system of record may be so amended as to admit of a more trustworthy report being furnished in future. His Excellency in Council has read with interest the Conservator's remarks regarding the small amount of damage done by fires in the East Penge Range, ascribed to the decreased amount of inflammable matter on the ground, resulting from continued protection; and I am to urge that the area of forests under special protection may be increased by considerable yearly additions. The area now under special protection has been increased at the rate of less than 20 square miles per annum during the last 6 years. His Excellency in Council would be glad to hear what the result has been of the experiments commenced in the year 1881-82, to grow evergreen trees on fire-lines with a view to avoid the necessity for clearing them of grass. The Government of India trusts that the connection believed to exist between absence of grazing and immunity from fires may be further studied; and that the question of isolating the richer forests by belts of grazed tracts may receive attention.

9. No information is afforded in the Conservator's Report on the subject, to which special attention was called in the review of last year's Report, of the more strict enforcement of the malguzars' responsibility for providing grazing for their cattle on their own lands. A report on this subject should be furnished for the information of His Excellency in Council. I am also to add that, in the opinion of the Government of India, the time has arrived when it must be considered whether the rates of grazing fees, which in the Central Provinces are exceptionally low as compared with those in other Provinces, should not be raised; and also whether a graduated scale of charges should not be introduced, proportionate to the accessibility and value as a grazing ground of each forest. This question should receive your early consideration.

9. From the Conservator's remarks, it is gathered that natural reproduction progresses favourably. I am to remark, however, that observations made with a view to determine the precise conditions under which the young natural growth of each species thrives would be of much value. It would, for example, be useful as well as interesting if it could be shown why teak and tinus grow better under salai, moyin, and aonla than under other species.

As was remarked in the review of last year's Report, the conditions in the Central Provinces are such that the question of artificial reproduction has comparatively small importance. But I am to say that experiments on a small scale, to determine the best and most economical method of planting and sowing the principal species should be undertaken, and the results regularly reported.

The cutting back of badly grown teak trees is an operation of importance, and one that should be adopted more extensively than hitherto.

The Government of India desires to invite your attention to the remarks made in the review of the Report for 1885-86, regarding the necessity which exists for the development of communications. The progress reported in this direction appears very small; and His Excellency in Council desires that the subject, as well as the provision of suitable buildings for the accommodation of controlling and executive officers when at work in the forests, may receive the early attention which its importance merits. In round numbers, only Rs. 4,800, or barely 1 per cent. out of a total expenditure of Rs. 5,00,000, have been spent during the past year on communications and buildings.

10. The following is a summary of the produce removed from the forests :—

| Description of Produce. | By Departmental Agency. | | | By Purchasers. | | | Total. | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1st class Reserves. | 2nd class Reserves. | Total. | 1st class Reserves. | 2nd class Reserves. | Total. | 1st class Reserves. | 2nd class Reserves. | Total. |
| | Tons. | Tons. | Tons. | Tons. | Tons. | Tons. | Tons. | Tons. | Tons. |
| Timber ... ... | 1,654 | 777 | 2,431 | 10,060 | 18,584 | 28,644 | 11,714 | 19,361 | 31,075 |
| Firewood and Charcoal | 321 | 196 | 517 | 13,033 | 65,017 | 78,050 | 13,354 | 65,213 | 78,567 |
| Bamboos ... ... | 291 | ... | 291 | 8,875 | 4,576 | 13,451 | 9,166 | 4,576 | 13,742 |
| Grass ... ... | 442 | 23 | 465 | 5,935 | 13,832 | 19,767 | 6,377 | 13,855 | 20,232 |
| Other Minor Produce | 157 | 316 | 473 | 812 | 5,294 | 6,106 | 969 | 5,610 | 6,579 |
| Total in 1836-87 ... | 2,865 | 1,312 | 4,177 | 38,715 | 107,303 | 146,018 | 41,580 | 108,615 | 150,195 |
| „ 1885-86 ... | 1,908 | 778 | 2,686 | 27,002 | 127,218 | 154,220 | 28,910 | 127,996 | 156,906 |
| Increase or decrease in 1886 87. | +957 | +534 | +1,491 | +11,713 | −19,915 | −8,202 | +12,670 | −19,381 | −6,711 |

There was an increase of 1,491 tons in the amount removed by departmental agency, and a decrease of 8,202 tons in that removed by purchasers. The figures are admittedly incomplete, and it is difficult to form a true estimate of what the real results of departmental operations have been. The total amount of timber (other than teak and sâl) and of firewood (including charcoal) removed from the Government forests of all classes amounts to only one-sixth of a cubic foot of the former and 20 lbs. of the latter, per head of the population. The Government of India is aware that the requirements of the people in this respect are met, to a great extent, from private forests; but I am to say that, in the opinion of His Excellency in Council, this extremely low rate points to errors in the record, which is admittedly faulty. You explain that two principal causes affect the amount of produce removed from the State Forests of the Central Provinces—*viz.*, *first*, the impulse given to the reckless felling of timber in zamindari and malguzari forests, due to the construction of the Bengal-Nagpur Railway, and the idea possessed by the malguzars that, in consequence of the Settlement operations now in progress, they must seize the present opportunity of making all they can out of their forests; *second*, the weakness of the forest establishments. I am to express the satisfaction felt by the Government of India that the importance of these questions is thoroughly appreciated by you, and that the first of the above-named causes of diminution in the Forest Revenue has your anxious attention. His Excellency the Governor General in Council is gratified to learn that you have taken measures to explain their true position to the malguzars, and also to enforce the clauses of the *wajib-ul-arz* regarding forest matters. In your opinion the facts which have come to light in this connection seem to call for a more effectual remedy than any which the law at present allows. Should you be led to the conclusion that an amendment of the existing legislation is needed, your proposals will meet with full consideration by the Government of India. The strengthening of the permanent conservancy establishments has now been provided for, and it rests with the Conservator to bring about the increase as rapidly as considerations of efficiency will admit of. The question of office establishments will doubtless receive your attention.

11. The financial results of the year's work appear to be as follows :—

| Year. | Receipts. | Charges. | Surplus. | Proportion of Surplus to Gross Revenue. |
|---|---|---|---|---|
| | Rs. | Rs. | Rs. | Per cent. |
| 1886-87 ... ... | 9,57,419 | 4,99,293 | 4,58,117 | 48 |
| 1885-86 ... ... | 10,36,894 | 4,45,432 | 5,91,462 | 57 |
| Increase or decrease in 1886-87 | −79,484 | +53,861 | −1,33,345 | −9 |

The gross Revenue was diminished by Rs. 79,484, while the Charges were increased by Rs. 53,861, the Surplus having consequently fallen by Rs. 1,33,345. The proportion of net Surplus to gross Revenue was reduced from 57 per cent. to 48 per cent. The Government of India agrees with you that these figures are far from satisfactory. His Excellency in Council would be glad to be informed of the causes which have led to such a small area of the 1st class Reserves in the Mandla and Chanda Districts having hitherto been worked. Vigorous measures should now be taken to fully open them out, and to exploit them under a regular Working-Plan. These measures and the raising of the grazing fees would, the Government of India believes, result in a large increase to the Revenue, and thus afford the means of improving forest communications and buildings in other parts of the province, as well as of strengthening the establishment within the sanctioned limits without a reduction of the net Surplus.

12. Certain discrepancies that have been noticed in the statements attached to the Report are treated of in the Appendix to this letter.

13. Notwithstanding the comparatively unfavourable results of the year's work, the Governor General in Council accepts your commendation of the officers whose names are mentioned by the Conservator, and acknowledges the services rendered by Colonel Doveton. His Excellency in Council notes with satisfaction your confidence that improved machinery will secure improved results.

14. In conclusion, I am to express the thanks of the Government of India for the great interest you have shown in this Department of your provincial administration.

*Appendix showing the discrepancies noticed in the Forms appended to the Report of Forest Administration in the Central Provinces for 1886-87.*

---

## FORMS NOS. 49, 49A., AND 49B.

*(Reserved Forests and Unclassed State Forests.)*

The Conservator has lumped up the two separate columns for "Division" and "Range" into one, with the consequence that all consideration of the Range is omitted, and the information embodied in the form is incomplete. It will be convenient to enter totals by divisions.

---

## FORM NO. 53.

*(Trees felled or girdled by Government Agency)*

The operations which are described in paragraphs 83 and 84 of the Conservator's Report, and which are selection fellings, have been left out of account.

---

## FORM NO. 54.

*(Outturn of Timber and Firewood.)*

In the column of selection fellings, no entries have been made, (i) under the Mandla Division, of the produce derived from 1,209 sâl trees shown in Form 53, or from the operations described in paragraph 83; (ii) under the Hoshangabad Division, of the produce obtained from the fellings described in paragraph 83; and (iii) under the Balaghat District Forests, of 210 dead trees which are exhibited in Form 53. Moreover, against the Seoni District Forests, the outturn of the thinnings described in paragraph 77 is not shown in the appropriate column. The omission of the words "in cubic feet" after "Outturn" in the heading of the third main column renders the statement unintelligible.

G. C. Press, Simla.—No 569 R. & A. D.—17-10-87—270.

No. 3923
227.

*Extract from the Proceedings of the Chief Commissioner, Central Provinces; dated Nagpur, the 29th July* 1887.

---

READ the Annual Report on Forest Administration for 1886-87, submitted by Conservator with his letter No. B-90, dated 18th July 1887.

---

## RESOLUTION.

The Government of India has recently drawn attention to the necessity for the punctual submission of the Forest Report; and the Chief Commissioner observes with pleasure that, notwithstanding the present deficiency of his office staff, Colonel Doveton has submitted this report in good time.

2. The changes in the areas under the Forest Department during the year were :—

| Forests. | On 1st April 1886. | Added. | On 31st March 1887. |
|---|---|---|---|
| | Sq. Miles. | | |
| "First Class Reserves" ... ... ... | 3,505 | ... | 3,505 |
| "Second Class Reserves" ... ... | 15,929 | 521 | 16,450 |
| Unclassed State Forests ... ... ... | 404 | ... | 404 |
| Total ... | 19,838 | 521 | 20,359 |

Changes in area.

The addition to the "Second Class Reserves" is nominal, being due to the correction of discrepancies in the area of the Mandla and Bilaspur Forests. It is to be regretted that it has again to be recorded that the area of the "First Class Reserves" has not been increased; but work was done during the year which has led to the transfer of some part of the "Second Class" Forests in several districts to the "First Class" since the close of the year; and work in other districts is in progress. Since the close of the year, it has been determined to abolish the distinction between "First" and "Second Class Reserves," and to place all the forests in each district under the Deputy Commissioner with the District Forest officer as his Assistant. As pointed out in paragraph 121 of the Report, it will be impossible to give full effect to this measure until the Forest Controlling Staff is increased. Proposals for the necessary increase are now under consideration; and it is hoped that the measure may soon be carried out. In consequence of this decision the question of transferring forests from the "Second Class" to the "First Class" has lost much of its significance. The distinction between forests requiring specially strict conservancy (henceforward to be called "Class A.") and those requiring less ("Class B.") will be maintained; but the two classes will no longer be managed by different Departments of the Administration.

Demarcation.

3. The scheme, referred to in paragraph 4 of last year's Review, under which the work of demarcating the "Second Class Reserves," so far as they march with the khalsa will be completed by the end of 1888, is being pushed forward by the Forest and Settlement Departments. The progress recorded in paragraphs 14 to 30 of the Report is, on the whole, satisfactory. The Chief Commissioner has seen some of the work done by the Forest officers, and has had reason to commend it.

Increase of establishments.

4. The Government of India has intimated its willingness to sanction a special officer for the charge of a Working Plans Division and another for Surveys. This will enable the Department to undertake these important branches of work, which have hitherto been neglected, owing to the impossibility of setting apart special officers to superintend them. The increase of Controlling staff already referred to, and the increase in the permanent Conservancy establishment already sanctioned by the Government of India, will also tend to make the work of the Department more efficient. The increase of Office establishment is under consideration.

Breaches of Forest Law.

5. The number of cases reported under the Forest Law, and the manner in which they were dealt with, are given below for two years:—

| Year. | Pending from previous year. | New cases. | Total. | Not detected. | Balance for disposal. | Prosecuted. | Compounded. | Dismissed as trivial. | Pending. |
|---|---|---|---|---|---|---|---|---|---|
| 1885-86 .. ... ... | 493 | 9,358 | 9,851 | 224 | 9,627 | 399 | 8,444 | 345 | 439 |
| 1886-87 ... ... .. | *441 | 7,312 | 7,753 | 37 | 7,716 | 424 | 6,264 | 264 | 764 |

* So given in this year's table, not 439.

Thus there was again a large decrease in the number of new cases reported and a slight increase in the number of cases prosecuted. The results of the prosecutions were as follows:—

| Year. | Prosecutions. | | Convictions. | | Acquittals. | | Pending. | |
|---|---|---|---|---|---|---|---|---|
| | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. |
| 1885-86 ... ... .. | 399 | 1,441 | 328 | 1,168 | 69 | 265 | 2 | 8 |
| 1886-87 .. ... .. | 424 | 1,115 | 333 | 837 | 87 | 259 | 4 | 19 |

These figures are unfavourable. The proportion of convictions to acquittals has fallen considerably. Far the worst district in this respect is Betul, where we find 99 persons acquitted and only 56 convicted: it is curious, however, that the *cases* convicted were 40 against only 21 acquitted. The prosecutions of persons in this district would appear to have been injudicious. The Chief Commissioner will call for a special report on the matter.

Fire protection.

6. The following table shows the results of special fire protection :—

| Year. | Area attempted. | Failure. | Area protected. | Cost. |
|---|---|---|---|---|
| | Sq. Miles. | | | Rs. |
| 1885-86 ... ... | 1,434 | 70 | 1,364 | 17,521 |
| 1886-87 ... ... | 1,555 | 115 | 1,440 | 19,034 |
| Difference ... ... | +121 | +45 | +76 | +1,513 |

These figures are not unsatisfactory. The extension of fire protection by 121 square miles is in accordance with the wishes of the Government of India. The success which has attended the efforts at fire protection has been considerable, only 7 per cent of the area attempted having been reported as "failure." The three large fires in the Kalibhit (Nimar), Moharli (Chanda) and East Pench (Seoni) Reserves were specially serious; but the results of the inquiry into the damage occasioned in the last named Reserve would seem to show that the labour of fire protection is not all lost even when fire breaks out and sweeps through a forest (*vide* paragraph 55 of the Report).

Grazing.

7. The following statement shows the stock which grazed in the Government forests for the last two years :—

| Year. | Buffaloes. | Cows and bullocks. | Sheep and goats. |
|---|---|---|---|
| 1885-86 ... ... | 4,06,320 | 23,90,788 | 4,79,697 |
| 1886-87 ... ... | 3,59,011 | 24,02,932 | 4,94,422 |
| Difference ... ... | —47,309 | +12,144 | +14,725 |

The explanations given of these figures are merely, in rather general terms, the character of the seasons and the fact that Berar now affords greater facilities for grazing than formerly. The decrease in buffaloes is attributed by the Conservator in great measure to deficient harvests; the increase in cows and bullocks is not proportionately equal to the normal annual increase of stock. The subject has scarcely received that detailed consideration and enquiry which the Government of India desired. (*Vide* paragraph 9 of the Revenue and Agricultural Department letter No. 174 F., dated 8th March 1887).

Produce removed.

8. The figures regarding the "yield of the forests" are given in a table at paragraph 101 of the Report; but they are admittedly incomplete. There are two causes which affect the forest revenue of this Province very unfavourably and which are likely to remain in operation for some time to come. The first of these is the great impulse which

has been given to the reckless felling of timber in Zamindari and Malguzari forests. This has been due to two causes, viz.: (1) the construction of the Bengal-Nagpur Railway has brought into the tracts through which it will pass a number of contractors who have induced the Zamindars to lease their forests on terms which, though much higher than they could have formerly got, are ruinously low compared with the value of the produce removed, (2) the Settlement operations have had a similar effect, the Malguzars having a vague idea that they must seize their present opportunity of making all they can out of their forests. The Chief Commissioner has taken measures to explain their true position to the Malguzars and also to enforce the clauses in the Wajib-ul-arz regarding forest matters. But the facts which have come to light seem to call for a more effectual remedy than any which the law at present allows. This subject has the Chief Commissioner's anxious attention.

9. Another cause of ineffective forest work is the lamentable weakness of the Forest Establishments. This weakness checks effort in all directions. The Government of India has sanctioned some considerable increase of establishment, and more will probably have to be asked for; but it will take some time to bring the establishment up to the required strength; and until this is done marked improvement will be impossible.

10. The following is a comparative statement of the receipts and charges for the last two years (*vide* Form No. 58) :—

Financial results.

| Year. | Receipts. | Charges. | Surplus. |
|---|---|---|---|
| | Rs. | Rs. | Rs. |
| 1885-86 ... ... | 10,36,893 | 4,45,433 | 5,91,460 |
| 1886-87 ... ... | 9,57,410 | 4,99,292 | 4,58,118 |

These figures are not satisfactory. What has been already said explains pretty fully the decrease in revenue, on which a special report is being submitted to the Government of India.

11. The Chief Commissioner recognizes with pleasure the services of the officers who have been specially commended in paragraphs 125 to 131 of the Report. He has also pleasure in recording his sense of the indefatigable zeal shown by the Conservator in the administration of this Department. The Chief Commissioner knows the difficulties under which Colonel Doveton has laboured; and he is confident that improved machinery will secure improved results.

---

ORDER.—Ordered that a copy of this Resolution be forwarded to the Conservator of Forests for information and guidance; also that copies, bound with the Report, be distributed as usual.

(True Extract)

A. H. L. FRASER,
Offg. Secretary.

No. $\frac{B}{90}$

FROM

LIEUT.-COLONEL J. C. DOVETON,

CONSERVATOR OF FORESTS,

Central Provinces.

To

THE SECRETARY TO THE CHIEF COMMISSIONER.

Central Provinces.

Dated Nagpur, the 18th July 1887.

SIR,

I have the honour herewith to submit the Annual Report on Forest Administration for the past year.

I regret that it has not been possible to submit the report by the 15th instant, owing to the impossibility with the establishment available, of the clerical work connected with the preparation of the annual returns being completed in time; and here it may be noted that so heavy is the clerical work in many Forest offices and especially in the Conservator's office that it can never be got through by the establishment available within ordinary office hours.

It is also regretted that it has been necessary to close the returns without first obtaining accurate information regarding the cost of fire protection for the dry season of 1887 at least for the Chanda Division. The protection of this kind only comes to a close in June, and there is some difficulty in obtaining accurate figures regarding its cost before the middle of July.

I have the honour to be,

Sir,

Your most obedient Servant,

J. C. DOVETON,

Conservator of Forests,

Central Provinces.

# TABLE OF CONTENTS.

## CHAPTER I.

*Area and Boundaries.*


| | Paras. |
|---|---|
| Area ... ... ... | 1 |
| Boundaries ... ... ... | 12 |


## CHAPTER II.


*Surveys, Working plans, and Annual plans of operations.* 31


## CHAPTER III.

*Protection and Improvement.*


| | |
|---|---|
| Establishments ... ... ... | 3 |
| General protection and breaches of the forest law ... | 43 |
| Forest fires ... ... ... | 48 |
| Grazing and fencing ... ... ... | 57 |
| Natural reproduction ... ... ... | 64 |
| Artificial reproduction ... ... ... | 70 |
| Early thinnings, removal of inferior species, cutting of creepers, &c. ... | 77 |
| Experiments and exotic trees ... ... | 85 |
| Communications and buildings ... ... | 86 |


## CHAPTER IV.

*Yield and Working.*


| | |
|---|---|
| Departmental operations ... ... ... | 88 |
| Removal of produce by purchasers ... ... | 98 |
| Free grant of forest produce ... ... | 99 |
| Produce removed by right-holders and under privileges ... | 100 |
| Summary of produce removed from the forests ... ... | 101 |
| Imports and exports of forest produce ... ... | 102 |


## CHAPTER V.


Financial results ... ... ... 103


## CHAPTER VI.


General Remarks ... ... ... 118

# PROGRESS REPORT

OF

# FOREST ADMINISTRATION

IN THE

# CENTRAL PROVINCES

FOR THE YEAR 1886-87.

---

By Lieut.-Colonel J. C. DOVETON, M. S. C.,

Conservator of Forests, C. P.

## CHAPTER I.

### Area and Boundaries.

*Area.*

The following abstract of Forms 49, 49A and 49B. shows the area of the Government forests as it was at the commencement and at the close of the year :—

| Forests. | On 1st April 1886. | Added during the year. | Excluded during the year. | On 31st March 1887. |
|---|---|---|---|---|
| | Acres. | Acres. | Acres. | Acres. |
| 1st Class reserves ... | 22,43,051 | 100 | ... | 22,43,151 |
| 2nd Class reserves ... | 1,01,94,249 | 3,33,723 | ... | 1,05,27,972 |
| Unclassed State forests, &c.... | 2,58,572 | ... | 190 | 2,58,382 |
| Total ... | 1,26,95,872 | 3,33,823 | 190 | 1,30,29,505 |

2. The details of the changes exhibited by the foregoing statement are explained as follows :—

The area of the first class reserve of Tigora in Saugor was found to be 100 acres more than the recorded area.

In the Nagpur district 190 acres were transferred from the unclassed State forests to the Second class reserves by Notification No. 1116 of the 11th March 1887, and in the Nimar Division 533 acres were added to the Second class reserves, *vide* Notification No. 3588 of the 7th August 1886.

Regarding the area of the Second class reserves in the Mandla district the Deputy Commissioner reports that the assessed area and the forest area collectively fall short of the area of the district as now determined by 3,13,380 acres, and that, as the discrepancy is believed to be in the area of the Second class reserves, the recorded area of these forests has been increased accordingly. For a similar reason 19,620 acres have been added to the recorded area of the Second class reserves in Bilaspur.

3. Though the records of the past year show no additions to the First class reserves, material progress has been made in the selection of areas for transfer from the Second class reserves hereafter to be called Class B to the First class reserves hereafter to be called Class A.

4. The Second class reserves in Hoshangabad were reported on after further examination. Regarding about 93 square miles of these forests further information is required. The remaining area has been divided as follows :—

| | Sq. miles. |
|---|---|
| (*a*).—Required for the supply of forest produce and grazing ... ... | 522 |
| (*b*).—Directly unprofitable as forest but covering rugged hills absolutely unfit for any other purpose ... ... | 170 |
| (*c*).—Available for cultivation when required for this purpose ... ... | 367 |

The above classification has met with the Chief Commissioner's approval and of the 522 square miles first mentioned the gradual transfer of 398 square miles from Class B. to Class A. has been sanctioned.

5. In the Betul district this subject has not been so completely dealt with, but the transfer of about 217 square miles from Class B. to A. has been proposed and sanctioned, and the scope of the investigation necessary to determine what areas, if any, can be given up to cultivation has been narrowed by the further selection of areas which must inevitably be retained as forest owing to their being unsuitable for any other purpose,

6. In the Jubbulpore district the transfer from Class B. to Class A. of four contiguous blocks containing about 21,000 acres forming the Sonepur forests and of three small blocks aggregating 2,539 acres on the Mandla border to be administered with certain areas now in the latter district, has been proposed and sanctioned.

7. In the Mandla district the forests of the Mandla Tahsil were examined by the Deputy Commissioner and Captain Losack, Deputy Conservator, under the instructions conveyed in the Secretary's letter No. 4910-269 of 26th October 1886, and the joint report of these Officers has been submitted for the Chief Commissioner's information.

In this district the immediate transfer of about 214 square miles from Class B. to Class A., has been proposed and sanctioned,—and it is expected that further transfers will be proposed as soon as the better management of the areas above referred to has been provided for.

8. A report was also submitted on a considerable portion of the Bhandara forests concluding with proposals for the transfer at once of 298 square miles from Class B. to A., suggesting that of the above area 161 square miles should be treated mainly with the view to improvement and indicating further transfers that will be necessary at no distant period. These proposals have it is believed been returned to the Commissioner to obtain the opinion of the District Officer.

9. Proposals, were also submitted for the transfer to Class A. of a considerable area in the Chanda district; but these while generally accepted by the Chief Commissioner have been returned for further consideration in respect of a few minor points. They will be resubmitted as soon as possible, and it is hoped, in time to admit of the passing of orders before the commencement of the next open season.

10. Further transfers from Class B. to Class A. in other districts are under consideration.

11. Now that the administrative distinction between the 1st and 2nd Class reserves has been removed, it will probably be expedient not to proceed too quickly in extending the area under strict conservation. It is hoped that the judicious application of the increase in the grant recently sanctioned for subordinate establishment will admit of very material progress in the conservation of the forests, but the extra establishment must first be organized and trained, and this, so far as the upper subordinate establishment is concerned, must take time to accomplish, In the meanwhile the areas that are, irrespective of the intensity of the conservation to be applied to them, to be permanently maintained as forest, can be definitely settled and defined.

*Boundaries.*

12. The maintenance of boundaries in the First class reserves has received careful attention. From Appendix A. it will be observed that inclusive of Rs. 109-13-0 spent on the erection, of 527 additional boundary marks, 2,172 miles of artificial boundary and 20,083 boundary marks have been maintained at a cost of Rs. 883-7-10.

13. The Deputy Conservator, Chanda Division, reports that some portions of the Moharli boundary are not sufficiently distinct, and the Divisional Officer, Hoshangabad, suggests that it will be preferable to clear all boundary lines annually instead of portions of them being cleared triennially, but these are matters of expediency only. The greater part of the Moharli boundary referred to runs with other reserved forest. The annual clearing of boundaries, though not everywhere absolutely necessary, is preferable where it can be conveniently carried out, as it tends gradually to reduce the cost of maintenance.

14. In the demarcation of the Second class reserves good progress has been secured, and it is now necessary to establish a system of record to secure the up-keep of the demarcation of these forests.

15. The following statement shows the work done during the past year in checking the boundaries of these forests and rendering their demarcation complete :—

| District. | Total length of boundary surveyed. | | Total length of boundary demarcated. | | Total cost. |
|---|---|---|---|---|---|
| | Miles. | Chains. | Miles. | Chains. | |
| | | | | | Rs. a. p. |
| Nagpur ... | 272 | 26 | 296 | 26 | 853 7 6 |
| Wardha ... | ... | ... | 242 | 10 | 1,716 11 10 |
| Bhandara ... | 130 | ... | 451 | 44 | 1,156 6 9 |
| Chanda ... | 457 | ... | 79 | ... | 2,262 9 4 |
| Balaghat .. | 170 | ... | ... | ... | 160 7 5 |
| Chhindwara ... | 483 | 19 | 483 | 19 | 826 7 4 |
| Betul ... | 476 | 60 | 108 | 27 | 776 10 4 |
| Mandla ... | 319 | 20 | 319 | 20 | 1,328 6 1 |
| Total ... | 2,308 | 45 | 1,979 | 66 | 9,081 2 7 |

16. In the Nagpur district there remained at the close of the year 168 miles of boundary to be checked and 611 miles to be demarcated by cleared lines and forest boundary marks, while on 154 miles of the demarcation done improvement of the lines of demarcation was necessary, The Divisional Officer's illness and his subsequently

Nagpur.

having to take leave out of India caused a serious check to progress during the year. Since the close of the year, the available establishment has been more concentrated on this work, and now 37 villages only remain, the demarcation of which where they adjoin the Government forests has to be carried out.

Wardha.

17. In the Wardha district the permanent demarcation of the Second class reserves has been brought to a close, the three disputed boundaries which remained for settlement at the end of the year having since been disposed of by orders passed by the Deputy Commissioner.

Bhandara.

18. In the Bhandara district there remained at the close of the year 19 miles of boundary to be checked, 195 miles to be corrected in places and 660 miles to be demarcated by cleared lines; the preliminary demarcation being simply a narrow line sufficient for checking the boundaries. Since the close of the year good progress has it is understood, been secured.

Chanda.

19. The work here has been confined to the more important forest. That more has not been accomplished in this district, can only be attributed to the numerous and heavy duties of the Officer in charge of this Division. The widening of the lines of demarcation to a sufficient width to be classed as permanent demarcation has not kept pace with the preliminary work, but the Divisional Officer reports, is now being vigorously pushed on.

Balaghat.

20. In Balaghat the work has been confined to the forests below the ghats, and on account of his knowledge of surveying was entrusted to the Officer in charge of the Bhandara Division. The boundaries not already finally demarcated as they exist, have been surveyed, and it remains only to check the results, making such corrections as may be found necessary, and then to widen the lines sufficiently to permanently define the forests.

Chhindwara.

21. In Chhindwara it was intended to leave so much of the work as had not been carried out by the close of last rains to be done by the Revenue Department. The Deputy Commissioner, however finding himself in a position to proceed in advance of the Revenue Department pushed on the work, which was supervised as heretofore by the Forest Officer. In all 483 miles of boundary were checked during the past year and this length is reported to have been demarcated.

Betul.

22. In Betul the total amount of demarcation work to be done proved to be somewhat more than was originally supposed. The return shows that of the total length of 1,112 miles of boundary there remained at the close of the year but 41 miles to be checked, while 529 miles remained to be permanently demarcated by the widening of the preliminary lines of demarcation and erecting such extra marks as might be necessary. In this district good progress has been made, more in fact than the returns show, as when the returns were submitted a considerable amount of work had been done which the Divisional Officer had not had time to examine. The boundary lines laid down in the previous year were re-cleared in 1886-87.

Mandla.

23. In Mandla the demarcation work has been confined to the more accessible forests lying between Mandla and Jubbulpore. In this district there is a considerable extent of demarcation to be accomplished and it will be necessary to consider and decide how the work is to be carried out.

24. In the Narsinghpur district the demarcation was taken up by Mr. Thomas, Deputy Conservator, who was specially deputed for this duty in November last. The work was pushed almost to completion by the close of the year at the cost of Rs. 430 exclusive of the pay and travelling allowances of the officer in charge. The work done in this district is not entered in the statement in para. 15, as measurements are not at present available.

Narsinghpur.

25. In Damoh wherever the traverse survey has been at work the Deputy Commissioner reports that during the year no boundary disputes have arisen.

Damoh.

26. The Deputy Commissioner, Saugor, reports that in this district the boundary disputes have been settled.

Saugor.

27. In Jubbulpore, where also the traverse survey is at work, the Deputy Commissioner reports that there have been no serious disputes and that those that have arisen have been settled jointly by the Revenue and Forest Officers.

Jubbulpore.

28. In the Seoni district the boundary disputes in the Seoni Tahsil have been settled and in the Lakhnadon Tahsil will shortly be disposed of. All the forest boundary lines in this district were re-cleared during the year.

Seoni.

29. In the Raipur district attention has been given to the settlement of disputes arising out of the demarcation work of the previous year, which had to be carried out hurriedly in order to be ready for the traverse survey.

Raipur.

30. The cost of demarcation work has varied considerably, but so varied are the sources of expenditure in different localities that no profitable comparison of the expenditure in different districts can here be instituted.

## CHAPTER II.

### Surveys, Working plans and Annual plans of Operations.

31 During the year under report, the Maps of the Topla and Keolikapa forests of the Mandla Division on the scale 4 inches equal 1 mile were rendered more complete by defining on them the limits respectively of blanks, mixed forest, and sal forest.

32. An enumeration of the standing sal in the Topla and Keolikapa forests was also undertaken but was not completed till after the close of the year. The result of this enumeration, though not sufficient for determining the quantity of timber that might annually be removed, will justify a certain quantity of timber being felled annually or as a demand occurs on these forests.

33. In the Bunjar forest the correctness of former valuation surveys continues to be tested by the enumeration of the standing trees in each block as it is worked.

34. Measurements to determine the rate of growth in the Bunjar and Bijragogarh forests continue to be recorded, and for the systematic record of measurements of a large number of dominant trees in the Topla forest for the same purpose, arrangements have been made; the trees having been marked and the first measurements recorded.

35. No working plans were prepared during the year under report; there has in most cases been far too much work on hand to admit of any such undertakings, especially with the unduly weak staff of upper subordinates by whom Divisional Officers have up to the present been assisted. What is necessary in this matter has been correctly described in para. 35 of the Inspection note of

1886 on the Central Provinces forests by the Inspector General of Forests, and it is hoped that a special appointment for the working plans branch and another for a special Forest survey branch will be sanctioned.

In the meanwhile annual plans of operations are required of Divisional Officers, and it is hoped gradually to make these more and more useful as a means of control.

36. In the Seoni district 95,844 acres in the Seoni Tahsil continue to be worked in rotation in accordance with a plan of operations that has now been in force for some years.

37. In the Saugor district also rough schemes for working the more important forests comprising 198,376 acres have been in force for some years, but the Divisional Officer has omitted to report that they have been abided by, during the past season.

38 Touching on the subject of working plans, it may be recorded that the Conservator's observations during his past season's tour point to the fact that in respect of many forests in these Provinces such plans will do much for the development of the revenue especially from those forests on which there is a good demand for fuel.

---

## CHAPTER III.

### Protection and Improvement.

*Establishments.*

39. There was no change either in the sanctioned scale of Controlling Officers or in the scale of permanent Subordinate Establishment. Since the close of the year a large increase in the permanent conservancy establishment to be accompanied by a corresponding decrease in the numerical strength of the temporary establishment has been sanctioned, and proposals for the application of the grant on this account have been submitted for the Chief Commissioner's approval.

40. There were the following changes in the Officers available for duty:—

Mr. J. McKee, Deputy Conservator, rejoined from the Rewah State.

Mr. M. Muttannah, Officiating Assistant Conservator, was temporarily attached to these Provinces.

Mr. J. Mckee, Deputy Conservator, and Mr. A. Watson, Assistant Conservator, were compelled by ill-health to take leave out of India.

Three Officers were also absent on leave for short periods.

41. The following increase was sanctioned in the temporary establishment:—

| | | | |
|---|---|---|---|
| 6 | Probationers | on Rs. 25 | per mensem. |
| 2 | Guards | on „ 8 | „ |
| 8 | Guards | on „ 7 | „ |
| 7 | Guards | on „ 5 | „ |

42. There were three unavoidable changes of Divisional Officers, but the disposition of the Subordinate establishment was practically the same as in the previous year.

## General protection and breaches of the Forest Law.

Offences by members of the establishment.

43. The number of subordinates that had to be punished and the punishments awarded, are detailed in Appendix B. The percentage of offenders is a trifle lower than in the previous year. Of the 13 offences for which prosecutions were instituted, two were offences which, though they disqualified the offenders for further service in the Department, were not directly connected with the discharge of duty as Forest Officials. There was one case of forgery, one of reporting falsely to mislead a public servant in the exercise of his power, seven of criminal breach of trust in respect of money or property, and one of breach of forest law in respect of lighting fire in a reserved forest at a time when such acts were prohibited. In the second case above mentioned, and in one of the cases of criminal breach of trust, the accused were acquitted on appeal.

Breaches of forest law.

44. The number of forest offences reported, the number pending at the commencement and the close of the year, and the number disposed of, are recorded in detail in Form 50 A. The number of new cases reported was 7,312 against 9,358 in the previous year and 11,472 in 1884-85. There can be no doubt that during the past year failure of the rice and kutki crops in parts of the provinces caused a greater incentive than usual to the commission of forest offences, and the smaller number of cases reported must therefore indicate that the law is better understood and more respected. The chief decrease has been in the districts of Chhindwara and Sambalpur. In respect of the decrease in the latter district, the Deputy Commissioner explains that a number of pending cases of the preceding year were brought on to the return for 1885-86, but at the same time remarks that a few judicious prosecutions ordered have tended to check forest offences.

45. Of the total number of cases reported, 264 were dismissed as trivial or for want of sufficient evidence, and in 37 cases the offenders were not detected. Thus with the pending cases of the previous year there were 7,452 cases for disposal. Of these, 424 were taken into Court and 6,264 were compounded, leaving for disposal at the close of the year 701 cases, of which 523 are in the Chanda, and 107 in the Saugor district.

46. Particulars regarding the prosecutions in different districts are given in Form No. 50. From the following comparative statement it will be observed that the percentage of convictions was lower than in the previous year by 3 per cent in the number of cases and 5 per cent in the number of persons.

Percentage of convictions.

| Reserves. | 1885-86. | | 1886-87. | |
|---|---|---|---|---|
| | Cases. | Persons. | Cases. | Persons. |
| 1st Class Reserves ... ... | 91·6 | 85·7 | 71·4 | 74·1 |
| 2nd Class Reserves ... ... | 81·9 | 81·4 | 79 6 | 76·4 |
| All Reserves ... ... | 82·2 | 81·5 | 79·3 | 76·4 |

47. In connection with the First class reserves there were but 14 prosecutions, while in the Nimar District only one, and in Balaghat only 4 cases were taken in to Court. The largest percentage of acquittals was in the Betul district, where of 155 persons charged 99 were acquitted. This excessive number of acquittals is more than sufficient to account for the lower percentage in the total number of convictions.

*Forest fires.*

48. The past has been the worst season known for many a long year for forest fires, which have raged with unusual fierceness unchecked by such ordinary circumstances, as casual showers of rain to extinguish the fires or break the connecting link for the communication of fire between the areas in which fires have broken out and the rest of the forest. Under these circumstances it could hardly be hoped that any large measure of success would be secured by attempts at general protection without special arrangements and expenditure, still the returns sent in indicate that a large area of forest has escaped being burnt.

49. Information on this subject regarding the First class reserves in Saugor, the Second class reserves in Jubbulpore, Damoh, Chhindwara and Sambalpur has not been received, and in respect of the Second class reserves of Chanda and Hoshangabad cannot well be obtained. The following statement gives the areas reported respectively as burnt or as having escaped fire elsewhere :—

| Division and District. | Total Area. | Area burnt. | Area escaped being burnt. |
|---|---|---|---|
| | Acres. | Acres. | Acres. |
| *First Class Reserves.* | | | |
| Mandla ... ... ... | 58,698 | 32,724 | 25,974 |
| Hoshangabad ... ... | 56,646 | 5,120 | 51,526 |
| Betul ... ... ... | 1,28,812 | 45,929 | 82,883 |
| Nimar ... ... ... | 6,01,093 | 4,14,167 | 1,86,926 |
| Chanda ... ... ... | 2,32,546 | 1,13,949 | 1,18,597 |
| Seoni ... ... ... | 1,58,922 | 1,49,034 | 9,888 |
| Wardha ... ... ... | 6,590 | 90 | 6,500 |
| Total ... | 12,43,307 | 7,61,013 | 4,82,294 |
| *Second Class Reserves.* | | | |
| Nagpur ... ... ... | 2,45,425 | 19,566 | 2,25,859 |
| Bhandara ... .. | 3,52,640 | 2,35,331 | 1,17,309 |
| Wardha ... ... ... | 95,362 | 2,420 | 92,942 |
| Balaghat ... ... ... | 6,14,562 | 2,36,041 | 3.78,521 |
| Saugor ... ... ... | 4,74,488 | 12,478 | 4,62,010 |
| Seoni ... ... ... | 3,54,306 | 2,69,484 | 84,822 |
| Mandla ... ... ... | 17,13,592 | 5,92,929 | 11,20,663 |
| Betul ... ... ... | 5,45,482 | 3,19,898 | 2,25,584 |
| Narsinghpur ... .. | 1,23,712 | 9,697 | 1,14,015 |
| Nimar ... ... ... | 4,58,960 | 1,25,057 | 3,33,903 |
| Raipur ... ... ... | 8,81,280 | 28,835 | 8,52,445 |
| Bilaspur ... ... .. | 4,34,980 | 3,25,647 | 1,09,333 |
| Total ... | 62,94,789 | 21,77,383 | 41,17,406 |

50. It must here be recorded that though there is little doubt that the figures representing areas burnt do not represent matters in too favourable a light, the accuracy of the figures relating to the areas which have escaped fire is doubtful, nor is it possible when the means available for the collection and record of such data is taken into consideration, to expect that accurate information on this subject can as yet be obtained.

51. The area under strict protection from fire was increased to 995,651 acres by the addition of the following areas :—

Areas under strict protection from fire.

MANDLA DIVISION.

| | Acres. |
|---|---|
| The Topla forest, exclusive of large blanks intentionally burnt | 39,852 |

CHANDA DIVISION.

| | |
|---|---|
| Part of the Peepulkoota sub-range of the Moharli forest | 15,143 |

HOSHANGABAD DIVISION.

| | |
|---|---|
| The Poplia block of the Saonligarh Reserve | 10,880 |
| Added to the Machuk block of the Rajaborari Reserve | 2,560 |
| Added to the Ajnal block of the same reserve | 7,680 |

SAUGOR DIVISION.

| | |
|---|---|
| The Hirunpur Bassia block in Saugor | 1,485 |
| Correction of area of Tigora Reserve | 100 |
| Total acres ... | 77,700 |

52. The areas under strict protection, the measure of success attained, and the cost, are fully detailed in prescribed Form 51, in reference to which it is only necessary to explain that the expenditure for the Chanda Division as recorded therein is not wholly correct, the Divisional officer having omitted the amount due on account of pay of fireguards for a period of about 6 weeks, vouchers for which had not reached him when the return for this division was prepared. Allowing Rs. 1,000 for these charges not exhibited in the form, 9,21,992 acres have been protected at a cost of in round figures 20,000 rupees The failures amounted to 73,659 acres or 7·4 per cent of the area attempted.

53. Of the 73,659 acres referred to in the preceding paragraph as having been burnt, the burning of 56,652 acres resulted from three fires which broke out in the Kalibhit Reserve of the Nimar Division, in the Taroba block of the Moharli Reserve of the Chanda Division, and in the east Pench range in the Seoni Division, while the burning of 15,977 acres resulted from the out-break of a series of fires in the Punassa reserve of the Nimar Division.

54. There were 32 cases of fire breaking out in the protected area, of which 14 were in the Nimar Division. Most of these fires were promptly extinguished by the establishment, but the 3 already referred to in Kalibhit, the East Pench and Taroba were under two adverse circumstances to be overcome until they had spread over a considerable area. In three cases of fires resulting from acts of gross negligence the offenders were prosecuted and punished. In several cases no trace of the origin of the fire can be obtained, and several cases are still under investigation.

55. It is much to be regretted that, in three forests which have been so long under protection, fire should have occurred and spread over so large an area; but the season, as already stated, was exceptionally unfavourable, and there is some satisfaction at any rate in finding from the facts recorded on an inspection of one of the above areas (that of the East Pench range) that the fact of fire passing through this forest had no appreciable effect on the forest growth, saplings and seedlings appear not to have been injured and no harm appears to have been done even to the foliage which was then starting. There can be no doubt that the small amount of injury done in this case is due to the decrease in the amount of inflammable matter resulting from continued fire protection.

56. In reference to para. 8 of letter No. 174 F, of 8th March 1837, from the Secretary to the Government of India, to the Chief Commissioner, Central Provinces, it may here be noted that the causes of forest fires are very varied

and numerous and that the occurrence or non-occurrence of fire can only in very exceptional cases be associated with grazing, though it is of course easier to extinguish fire in areas that have been heavily grazed than elsewhere.

The subject of the paragraph above quoted will not be overlooked, though it may be noted that in this matter experiments were made fifteen years ago, and that they were abandoned because they rendered the efficient clearing of fire lines more difficult and costly.

### Grazing and Fencing.

57. With the exception of the small areas in Saonligarh and Rajaborari to which improvement cuttings were in the past year extended, there has been no increase in the area from which cattle are excluded. It is however to be noted that though of the area open to grazing a considerable portion is, as previously reported, heavily grazed, there is a large area in which the grazing is light and many areas which cattle rarely enter.

58. Appendix C. indicates the extent to which the forests of the different districts were resorted to for grazing during the past year. It is regretted that in this statement it is not yet possible to return sheep and goats separately. The use of separate licenses for the two classes of stock, which will probably be introduced, will however render it an easy matter to maintain the distinction in the future.

59. The following is a comparative statement of the amount of stock of the three chief classes grazed in the Government forests during the past two years :—

| | | 1885-86. | 1886-87. |
|---|---|---|---|
| Buffaloes | ... | 406,320 | 359,011 |
| Cows and bullocks | ... | 2,390,788 | 2,402,932 |
| Sheep and goats | ... | 479,697 | 494,422 |

In the foregoing figures for 1885-86 an error that occurred in the return for Wardha and another in the return for Nimar have been corrected.

60. There have been various causes which have tended during the past year to restrict the extent to which the Government forests have been resorted to for grazing, the chief of which are as follows :—

1st—the greater facilities for grazing found now to exist in Berar ;

2nd—the increase in the fodder supply resulting from breaks in the monsoon and late rains;

3rd—the effect of the rainfall in necessitating cattle being kept at home for farm purposes when ordinarily sent to the forests to graze.

4th—the abolition of grazing licenses for short periods for cattle passing through certain forests in Betul, and Hoshangabad.

The districts affected by the first cause are believed to be Bhandara, Nagpur, Wardha and Betul.

With the exception of Nimar and parts of Mandla and Balaghat, all districts are believed to have been more or less affected by the second cause, while the third cause is believed chiefly to have operated in the districts of Narsinghpur and Hoshangabad.

61. According to the corrected returns the number of buffaloes resorting to the Government forests has decreased by 47,309, while the number of cows and bullocks has increased by 12,144, and the number of goats and sheep by 17,725.

62. The Conservator's observations during the season's tour point to the conclusion that, the smaller number of buffaloes returned is in a great measure due to the partial failure of the rice crop in the Eastern districts, resulting in the trade done in male buffaloes for cultural operations in the rice country being less. The districts likely to have been affected in this way are Saugor, Narsinghpur, Hoshangabad, Chhindwara, Seoni, Balaghat and especially Mandla.

63. The increase in the number of cows and bullocks grazed is not in proportion to the normal annual increase of stock bred, which appears to be fully accounted for by the several reasons already set forth. It is satisfactory to note that the increase in the number of cattle grazed is chiefly in those districts best able to meet the demand.

*Natural re-production.*

64. There ia at present little to add to what was recorded in paras. 68 to 81 of the Report for 1885-86. The results everywhere are in proportion to the quality of the soil, the seed-bearing trees existing, and the degree of protection afforded.

65. In the Bhandara district the effect of the check put of late years on reckless cutting is in a considerable portion of the area very marked, but only in respect of the re-growth. Wherever the Garari (*Lebedieropsis Orbicularis*) forms an important element in the forest growth the increase in the cover on the ground is very marked and the position for bringing these forests under systematic treatment has been greatly improved.

66. Regarding natural reproduction in the Seoni Division, the Divisional Officer writes as follows :—

> "In all the ranges where the soil is favourable and where cattle are excluded there is generally good growth from self-sown seed. In the Korai and Sonawani ranges, bambu and saj seedlings are coming up luxuriantly, and in these ranges as also in a large area of the East Pench range, tewas and dhaora seedlings are in a prosperous condition. But in the 2nd Class and other forests which are burnt periodically and grazing is not checked, the main reproduction is from stools."

67. Regarding the Kuntranala and Hathibari reserves which are under fire protection, the Divisional Officer remarks, that reproduction is good in both forests and that this is due to fire protection, without which reproduction cannot be expected.

68. In parts of the Saonligarh reserve inspected by the Conservator, the reproduction of teak and tinus in open spaces, and beneath such inferior species as salai, moyin and aoula, was found to be excellent.

In those areas in this division which are not protected from fire or cattle, reproduction is at the best poor, and though, where there is a fortunate association of species such as teak with other specially protected trees, or with inferior trees for which in the locality there is no demand, the young growth has developed well, in a considerable portion of the teak bearing area, the teak has suffered from the too extensive cuttings of other species. It is however, hoped that at no distant period these more valuable areas will be subjected to a more rational method of treatment.

69. The natural reproduction in open spaces at high levels in the Jagmundal reserve of the Mandla Division was previously referred to in paragraph 69 of the report for 1885-86. The young growth that had then sprung into existence has continued to develope well, and now in the plain portion, except in the one large absolute blank, not only has reproduction been excellent, but the proportion of young trees that have passed into the sapling and pole stage is very large indeed; perhaps the proportion of teak is a little too large, but this is a matter to which attention has been directed and which will if possible be remedied.

*Artificial reproduction.*

70. Under this head there are no large works to which reference has to be made, but much good has been done by small sowings in different localities to fill up blanks or improve the composition of the standing crop, and a little has also been done in the planting of evergreens along the boundaries and fire lines.

Betul Division.

71. The planting of evergreens along the boundaries and fire lines in the Bowergarh and Khamapur reserves was continued with fair results and at a moderate cost. Over 5,800 pits were prepared and over 6,000 pits including renewals were planted at a cost of Rs. 225. In Bowergarh in the old teak plantation to secure a more mixed growth, 3,800 pits were sown with tinus and khair. An area of 55 acres was also sown with teak in prepared pits, and 2 acres of nursery prepared and sown with a view to filling up blanks should the seed in any of the pits fail. The outlay on these operations was a trifle under Rs. 170. Some sowings were also carried out by residents of the forest on lands that had fallen out of cultivation. The result of these operations cannot at present be recorded, but some idea can be formed of what may be expected in the future by the fact that on 177 acres sown in 1877 in the Khamapur reserve there are now 10,400 teak trees averaging 7 feet in height and 6 inches in girth, the trees in some places having attained a height of 14 feet and a girth of 9 inches.

Seoni Division.

72. In the Seoni division a good deal has been done by the establishment in sowing seed of the more valuable species below and around ber and other trees of less value.

Saugor Division.

73. In the Saugor division Rs. 114 were spent on the sowings and plantings of previous years, and some further plantings in the Ranipura forest.

Chhattisgarh Division.

74. A little planting to fill blanks in the Hathibari and Kuntra-nala reserves was also carried out by the establishment therein employed.

Balaghat.

75. In this division 4 acres of blank were sown along the boundaries of the Pandratola reserve with fair results.

Damoh.

76. There was an outlay of Rs. 120, on the planting of 2,855 trees in the Kishen-talao reserve and the protection and cultivation of trees previously planted in the same locality.

*Early thinnings, removal of inferior species and cutting of creepers, &c.*

Thinnings.

77. Some light thinnings were executed in part of the Korai plantation of the Seoni division and in other portions of this plantation inferior species were either cut out or lopped to permit the upward progress of the better species artificially raised. In parts of the East Pench range also a number of ber and other thorny species were cut back or lopped to free the seedlings or saplings of better species beneath them which had resulted partly from natural reproduction and partly from sowings.

Creeper cutting.

78. Under this head, there is reason to believe that more has been done than is indicated by the divisional records of work accomplished.

Seoni Division.

79. In the Seoni division in the Northern portion of the Korai range, 2,000 acres in which creepers were abundant, were cleared at a cost of Rs. 102, and 200 acres in the West Pench and 200 acres in the East Pench ranges where the forest growth is exceptionally good were also cleared of creepers.

Mandla Division.

80. In the Mandla division the cutting out of creepers was carried out within fixed limits in the Barela and Jagmundal reserves. The outlay on this account was a trifle under Rs. 70, but the area operated on, though defined by fixed limits, has not yet been recorded.

Balaghat.

81. In Balaghat, on the cutting of creepers in the Pandratola reserve Rs. 85 were spent, the area operated on was 4,217 acres.

82. In Nagpur, Bhandara and Damoh good work is reported to have been done under this head by the Forest Guards.

Cutting back of badly grown trees to secure a better re-growth.

83. Operations of this kind have been confined to the Lower Gour and Singrampur forests in the Mandla division and the Rajaborari and Saonligarh forests in the Hoshangabad division. In the two last mentioned forests the cuttings of this kind have been confined to teak, and owing to the very large supply of teak poles of superior quality such as would not be cut from the Government forests, coming into the market from private estates, the cutting back of teak in these forests has been on a limited scale; moreover the farther into the interior of a forest the cuttings extend the smaller becomes the proportion of badly grown trees to be cut out. The precise area operated on in the Hoshangabad division has not yet been reported.

84. In the Singrampur reserve there is very little badly grown teak left to be cut over. In the Lower Gour forest over an area of 32½ acres all badly grown trees were cut out. The result of similar operations carried out in previous years is reported as satisfactory.

*Experiments and Exotic trees.*

85. Under this head there is nothing new to record.

*Communications and Buildings.*

86. No large works under this head were undertaken during the year. The principal operations were as follows :—

A new road was projected from Menda to Kachar in the Bowergarh reserve in Betul, the work was confined to the more difficult part of the line and Rs. 631 were spent on 2⅓ miles.

Some of the gradients on the Mohkal and Gorakhal road in the Rajaborari reserve were reduced at a cost of Rs. 200, and a ghat on the Baji valley road in the Saonligarh reserve was improved at a cost of Rs. 121.

A substantial building to supply accommodation for subordinates at Rookur in the Korai range was erected at a cost of Rs. 192.

Two tanks for watering cattle in the Bilaspur forests were completed at a cost of Rs. 350.

A well required at Dhekna in the Saonligarh reserve was commenced and sunk to a depth of 23 feet at a cost of Rs. 101, and Rs. 45 were spent on sinking a well at Talia in the Satpura reserve, but neither of these works were completed before the close of the year.

87. A sum of Rs. 233 was also spent on the renewal of some of the woodwork in the Chanda bungalow, and Rs. 2,534 on the maintenance of accommodation for subordinates and repairs of existing fair weather roads. The cost of maintaining during the past year the 19½ miles of fair weather roads made of late years in the Bowergarh reserve has, notwithstanding the hilly nature of the country, only amounted to Rs. 116 or about Rs. 6 per mile.

# CHAPTER IV.

## YIELD AND WORKING.

### *Departmental Operations.*

88. As in the previous year the Departmental timber operations were chiefly confined to the Mandla and Chanda divisions, while the only districts in which minor produce was collected on a large scale were Mandla and Balaghat.

89. In the Mandla division the chief Departmental operations were in connection with the supply of 5,187 sleepers for the Bilaspur-Etawah State Railway, 682 broad-gauge sleepers to the Great Indian Peninsula Railway, and 1,300 pitprops to the Umaria Colliery. About two lakhs of bambus were also cut, of which the greater portion were sold at dopôt in the forests. 2,700 maunds of "hurra" and some other minor produce was also collected on account of Government.

90. The destruction by fire of a quantity of material at the Mocha rafting depôt in Mandla at the commencement of the year resulted in the loss of about Rs. 5,000. As matters stand there has been an outlay under Departmental operations in this division of Rs. 24,528 against an income under the corresponding head of Rs. 36,347.

91. In the Chanda division the following were the principal operations:—

The collection of 30,733 cubic feet of teak resulting from dead or dying trees and wind falls in Ahiri.

The conversion of 30,229 cubic feet into sleepers and scantlings.

The carting from Allapilli of 1,723 broad-gauge sleepers to Warora and 6,027 to Kirmiri to be taken on by water.

The carting of 4,114 pitprops from the Moharli forest to Warora.

92. The total expenditure against Departmental operations in this division including the cost of the temporary establishment employed was Rs. 20,376 against a revenue under the corresponding head of Rs. 25,644. The high proportion of the expenditure to the receipts is due to the small expenditure in the preceding year under Head A-Ia. which only slightly exceeded Rs. 14,000, while the revenue under the corresponding head on account of that year was nearly Rs. 60,000, of which a good portion resulted from previous years' expenditure. A part of the past year's expenditure is on material ordered for supply in 1887-88.

93. As in the previous year the Departmental operations in the Hoshangabad division were confined to the collection of wood resulting from improvement cuttings.

94. The Departmental timber operations in Bhandara, though apparently on a large scale, were confined to dealing with material felled on boundary lines.

95. The only other important operations have been the collection of "hurra" in Mandla and Balaghat. Over 10,000 maunds were collected in Balaghat and have been stored till the next open season. The Mandla collection amounted to 8,858 maunds. The prices offered for this produce are however still low as compared with those realized in 1885-86.

96. Forms 53, 56 and 57 relative to Departmental operations are appended. From Form 57 it will be observed that the value of stock at sale depôts was less at the close than at the commencement of the year by Rs. 5,737. This difference is almost accounted for by the loss from fire referred to in paragraph

90, it is moreover much more than counterbalanced by the large increase in the value of stock in transit or which has not yet come to sale depôts, but has been collected and stored.

97. The produce felled or collected on account of Government is given in detail in Forms 54 and 55. The quantity in tons removed respectively from the first and second class reserves is as follows:—

| | 1st Class Reserves. | 2nd Class Reserves. | Total. |
|---|---|---|---|
| Timber teak and sal ... | 1,224 | 71 | 1,295 |
| Timber other than teak and sal .. | 430 | 706 | 1,136 |
| Firewood and charcoal ... | 321 | 196 | 517 |
| Bambus ... | 291 | ... | 291 |
| Grass ... | 442 | 23 | 465 |
| Other minor produce .. | 157 | 316 | 473 |
| Total ... | 2,865 | 1,312 | 4,177 |

*Removal of produce by purchasers.*

98. Returns of the produce removed by purchasers are not available for all districts, nor is it possible that these returns can be rendered complete till commutation has been completely abolished. The information available is recorded by divisions and districts in Forms 54 and 55.

The following figures represent the estimated weight in tons of the quantities detailed in the forms last specified:—

| | 1st class Reserves. | 2nd Class Reserves. | Total. |
|---|---|---|---|
| Timber teak and sal ... | 14 | 262 | 276 |
| Timber other than teak and sal ... ... | 10,046 | 18,322 | 28,368 |
| Firewood and Charcoal ... ... | 13,033 | 65,017 | 78,050 |
| Bambus ... ... | 8,875 | 4,576 | 13,451 |
| Grass ... ... | 5,935 | 13,832 | 19,767 |
| Other minor produce ... ... | 812 | 5,294 | 6,106 |
| Total ... | 38,715 | 1,07,303 | 1,46,018 |

It will be observed that but a nominal portion of the out-turn of the forests is collected by Government agency.

*Free grants of forest produce.*

99. There has been very little produce granted free of charge and so small is the quantity returned that it is not worth taking into account.

*Produce removed by right-holders and under privileges.*

100. No rights to the removal of forest produce from any of the Government forests exist.

*Summary of produce removed from the forests.*

101. The following statement gives in tons the total recorded yield of the forests, details of which are shown in Forms 54 and 55.

| | 1st Class Reserves. | 2nd Class Reserves. | Total. |
|---|---|---|---|
| Timber teak and sal ... ... | 1,238 | 333 | 1,571 |
| Timber other than teak and sal ... .. | 10,476 | 19,028 | 29,504 |
| Firewood and charcoal ... ... | 13,354 | 65,213 | 78,567 |
| Bambus ... ... | 9,166 | 4,576 | 13,742 |
| Grass ... ... | 6,377 | 13,855 | 20,232 |
| Other minor produce ... | 969 | 5,610 | 6,579 |
| Total .. | 41,580 | 1,08,615 | 1,50,195 |

Owing to their admitted incompleteness these figures furnish no field for remark.

*Imports and Exports of forest produce.*

102. There is nothing to record under this head.

## CHAPTER V.

### Financial results.

Receipts.

103. The following is a comparative statement of the receipts and charges as shown by Form 58 for the past two years:—

| | | 1885-86. | | 1886-87. | |
|---|---|---|---|---|---|
| | | Rs. | Rs. | Rs. | Rs. |
| Receipts | ... | ..... | 10,36,893 | ..... | 9,57,410 |
| Charges ... | A. | 2,59,404 | ..... | 2,86,689 | ..... |
| | B. | 1,86,029 | 4,45,433 | 2,12,603 | 4,99,292 |
| Surplus | ... | ..... | 5,91,460 | ..... | 4,58,118 |

There was thus a decrease of Rs. 79,483 in the gross, and of Rs. 1,33,342 in the net receipts. The decrease in the revenue of the year is not however by any means as large as it appears from the foregoing figures.

104. If reference be made to Form 60 for 1885-86 and para. 135 of the Report for that year, it will be found that in that year there was a difference between the revenue outstanding at the commencement and close of the year of

Rs. 28,949 and that Rs. 6,375 on account of the current year were credited in 1885-86, while at the close of 1886-87 Rs. 7-8-0 only paid in advance remained unadjusted. Thus the revenue of the current year was Rs. 6,367 more and that of the preceding year Rs. 35,324 less than the actual cash receipts shown by Form 58. The difference between the revenue of the two years is therefore only Rs. 37,792, a difference which is fully accounted for by the following facts.

In part of the Nagpur forests it was found necessary to place further restrictions on fellings as a preliminary measure to the introduction of systematic working.

Private forests have generally been much more extensively worked, especially in respect of the more valuable products. The partial failure of crops in the rice country has made more carriage available for bringing produce from the Zamindaris into the open country of Bhandara and Nagpur. The fall in the value of "Hurra" by nearly 50 per cent has diminished the demand and ruling prices for this product.

The demand on the Government forests for grass was diminished by the distribution of the rainfall causing a greater production of grass outside the forests and an especially good crop of Jawari.

The partial failure of crops has resulted in some portions of the various communities reducing the consumption of forest produce in which they have ordinarily indulged, though the effect from this cause may have been slight.

It is also believed that Banjaras have more generally take advantage of the concession in their favour in respect of grazing.

These with the causes effecting the grazing of cattle in the Government forests set forth in paras. 60 to 62 of this report are far more than sufficient to account for the fall in the receipts, and it speaks well for the elasticity of the revenue that in spite of such a combination of adverse circumstances the receipts were not very much less.

105. For the same reason that the difference in the gross revenue is less than is shown by Form 58, the decrease in the net revenne of the year is also less by Rs. 41,691, the actual difference being 91,700, of which 37,800 are accounted for by the fall in the receipts. The remaining difference of 53,900 represents increase in expenditure, and is accounted for as follows:—

Under timber operations the small outlay in the previous year has already been referred to as effecting the result of such transactions in 1886-87, in which year more was spent with a view to the production of revenue in 1887-88.

The impossibility of obtaining a fair offer for the Hurra crop in Balaghat necessitated the crop being collected on account of Government, but the expenditure on this account could not be recouped in 1886-87.

Owing to the staff of officers present being somewhat stronger and the average expenditure on tents in the past seven years not being equal to the average wear and tear of these articles a somewhat larger outlay on this account was necessary in 1886-87.

The area under protection from fire has been extended, outlay has been incurred to determine the growing stock in the sal forests with the view to the production of revenue in the immediate future and more has been spent on forest organization and conservancy generally.

106. Of the larger expenditure amounting to nearly Rs. 27,000 under the head B. Establishments, Rs. 2,544 result partly from the difference in the pay of the Conservator and partly from the recovery in 1885-86 of payments previously made and charged off; the balance of the difference is partly due to promotions given with retrospective effect but mainly to more officers being present, which has increased the expenditure on account of salaries, travelling allowances and carriage of office tents, and to the increase in the work of the Department which has raised the expenditure on account of official postage and other contingencies.

107. Form 60 shows that the value of the outstandings on account of revenue was at the close of the year Rs. 3,676-7-0 against a liability of Rs. 1,816-7-2 at the commencement of the year. From this form it will be seen that the value of the sales effected during the year was Rs. 9,56,535-1-9, while the value of the year's transactions amounted to Rs. 9,62,892 thus:—

| | | Rs. | a. | p. |
|---|---|---|---|---|
| Realized during the year | ... | 9,57,409 | 11 | 7 |
| Add liability at commencement of the year | ... | 1,816 | 7 | 2 |
| Add outstanding at the close of the year | ... | 3,676 | 7 | 0 |
| Total | ... | 9,62,902 | 9 | 9 |

108. From Form 61 it will be seen that the outstandings on account of advances were at the close of the year below Rs. 10,000: almost the whole of this amount is cash advanced to disbursers. The figures of this form, which are duly attested by the Comptroller and Auditor General, in no way affect the financial results of the year.

109. Prescribed Form 62, in which the expenditure has been arranged as required by the Forest Code, gives the following results:—

| | Receipts. Rs. | Charges. Rs. |
|---|---|---|
| Timber and other produce removed from the forests by Government agency ... | 79,042 | 63,198 |
| Timber and other produce removed by purchasers ... | 8,78,368 | 2,80,536 |
| Formation, conservation, and improvement of forests ... | | 1,55,559 |
| Total ... | 9,57,410 | 4,99,293 |

110. In reference to the relation of the receipts to charges against the first heading it has already been explained that whereas there has in the past year been but a nominal income resulting from the expenditure of previous years, it was necessary to incur expenditure against demands for timber to be met in the current year, that owing to the low rates ruling, the Hurra crop of Balaghat was not sold, and through an outbreak of fire there was a loss of Rs. 5,000. It is also to be noted that whereas Departmental operations have been debited with the entire cost of temporary establishment charged to A.-I. a, part of that establishment in Chanda also performs duties the cost of which is strictly debitable to the other two heads of charge.

111. The following is a comparative statement of the receipts and charges in different Divisions—

| Division. | Receipts. | | Charges. | | Surplus. | | Deficit. | |
|---|---|---|---|---|---|---|---|---|
| | 1885-86. | 1886-87. | 1885-86. | 1886-87. | 1885-86. | 1886-87. | 1885-86. | 1886-87. |
| *1st Class Reserves.* | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| Direction ... | 3,086 | 2,374 | 39.101 | 39,229 | ... | ... | 36,015 | 36,855 |
| Mandla ... | 26,594 | 39,521 | 41,892 | 54,107 | ... | ... | 15,298 | 14,586 |
| Hoshangabad ... | 22,700 | 21,459 | 16,404 | 17,409 | 6,296 | 4,050 | ... | ... |
| Betul ... | 13,230 | 12,896 | 10,151 | 9,056 | 3,079 | 3,840 | ... | ... |
| Nimar ... | 38,294 | 40,681 | 31,523 | 27,508 | 6,771 | 13,176 | ... | ... |
| Chanda ... | 1,03,165 | 45,305 | 34,162 | 42,617 | 69,003 | 2,688 | ... | ... |
| Seoni ... | 21,986 | 24,328 | 14,753 | 14,846 | 7,233 | 9,482 | ... | ... |
| Saugor .. | 8,712 | 7,961 | 6,005 | 6,505 | 2,707 | 1,456 | ... | ... |
| Wardha ... | 5,598 | 5,141 | 6,406 | 4,274 | ... | 867 | 808 | ... |
| Chhattisgarh ... | ... | 145 | ... | 1,290 | ... | ... | ... | 1,145 |
| Total ... | 2,43,365 | 1,99,811 | 2,00,397 | 2,16,841 | 42,968 | ... | ... | 17,030 |
| *2nd Class Reserves.* | | | | | | | | |
| Nagpur ... | 33,668 | 32,157 | 14,191 | 18,735 | 19,477 | 13,422 | ... | ... |
| Bhandara ... | 46,274 | 42,405 | 17,000 | 22,208 | 29,274 | 20,197 | ... | ... |
| Wardha ... | 19,378 | 18,711 | 6,704 | 8,778 | 12,674 | 9,933 | ... | ... |
| Chanda ... | 93,290 | 82,439 | 23 894 | 25,791 | 69,396 | 56,648 | ... | ... |
| Balaghat ... | 38,601 | 29,751 | 12,621 | 17,121 | 25,980 | 12,630 | ... | ... |
| Jubbulpore .. | 17,827 | 16,667 | 5,828 | 5,050 | 11,999 | 11,617 | ... | ... |
| Saugor ... | 62,076 | 58,249 | 23,560 | 22,632 | 38,516 | 35,617 | ... | ... |
| Damoh ... | 61,548 | 58,966 | 13,434 | 13,592 | 48,114 | 45,374 | ... | ... |
| Seoni ... | 51,975 | 52,499 | 16,034 | 16,303 | 35,941 | 36,196 | ... | ... |
| Mandla ... | 85,624 | 90,191 | 15,916 | 22,736 | 69,708 | 67,455 | ... | ... |
| Hoshangabad ... | 55,837 | 45,709 | 23,776 | 20,092 | 32,061 | 25,617 | ... | ... |
| Nimar ... | 26,576 | 21,951 | 15,938 | 16,883 | 10,638 | 5,068 | ... | ... |
| Betul ... | 44,652 | 43,378 | 14,884 | 16,224 | 29,768 | 27,154 | ... | ... |
| Narsinghpur ... | 12,842 | 10,114 | 3,530 | 7,797 | 9,312 | 2,317 | ... | ... |
| Chhindwara ... | 31,577 | 36,569 | 12,671 | 15,407 | 18,906 | 21,162 | ... | ... |
| Raipur ... | 67,320 | 68,761 | 15,893 | 23,414 | 51,427 | 45,347 | ... | ... |
| Bilaspur ... | 24,959 | 30,542 | 4,520 | 5,095 | 20,439 | 25,447 | ... | ... |
| Sambalpur ... | 19,504 | 18,540 | 4,642 | 4,594 | 14,862 | 13,946 | ... | ... |
| Total ... | 7,93,528 | 7,57,599 | 2,45,036 | 2,82,452 | 5,48,492 | 4,75,147 | ... | ... |
| Grand Total ... | 10,36,893 | 9,57,410 | 4,45,433 | 4,99,293 | 5,91,460 | 4,58,117 | ... | ... |

In the foregoing statement the Direction charges have not been apportioned.

112. The deficit against the 1st Class Reserves of Mandla is explained by the large area of forest under conservation and improvement, and the small area at present being worked.

113. In Chanda the fall in the surplus from the two 1st Class reserves in that division, as already explained in para 109, is due to expenditure incurred for the production of revenue in 1887-88 and the recovery in the previous year of outstandings.

114. In the two small 1st Class Reserves in the Chhattisgarh Division the expenditure is especially on improvement and conservation. These areas were formerly administered from the Direction office.

115. In Nimar the administration of the 1st and 2nd Class reserves has been so closely allied by the utilization of the same establishment in both classes of forest that to admit of any comparison of figures it is necessary to take the difference on account of both classes of forest collectively, and then it will be found that the surplus has increased owing to the outlay being less.

116. The only cases of decrease in the surplus not explained by the general remarks regarding the revenue are those of Balaghat and Narsinghpur. In the former district besides the direct loss of revenue from the sale of Hurra within the year there was the cost of collecting and storing this product for sale in 1887-88, while a little more was spent on forest organization and improvement. In Narsinghpur the difference is almost entirely due to a superior Officer being employed on demarcation work in that district for part of 1886-87.

117. The increase in net and gross receipts in Bilaspur is satisfactory. The increase in Seoni results merely from a transfer of the demand from Nagpur. In Chhindwara the rise in the surplus results from better sales of timber, fuel and minor produce, and cannot at present be explained.

---

## CHAPTER VI.

### General Remarks.

118. During the year the necessity of increasing the permanent Conservancy establishment was taken up, and this matter has been so far disposed of since the close of the year, that an increase in the expenditure on this account of Rs. 71,340 to be gradually worked up to, has been sanctioned.

119. The necessity of a local working-plans branch has been admitted, and it has been proposed that another officer should be sanctioned for these Provinces on this account.

120. The necessity of organizing a special Forest survey branch to take up the survey and mapping of forests which cannot conveniently be taken up by the regular survey parties has also been under consideration, and the appointment of a special officer for this purpose has been proposed.

121. Since the close of the year orders have been received for the organization of control charges, district by district, and placing the administration of all forests under District Officers, assisted in each case by a Forest Officer. The present staff being insufficient for giving full effect to these instructions, application has been made for a further increase in the sanctioned scale of officers.

122. The next important matter demanding attention is the strengthening of the office establishment, and the improvement of the prospects of the men in this section of the Department; and this matter cannot be deferred longer than is necessary to determine what modifications the change in the distribution of control charges will render necessary. At present, progress is much retarded by the want of proper office establishment, and the loss of time resulting therefrom. The area of the forests alone is not a standard by which the office establishment necessary can be measured, nor does it follow that the strength of such establishment should be directly in proportion to the number of charges into which the forests are divided; still when the charges are compared with

those in the North Western Provinces, and the relative Forest area to be administered in the two Provinces the fact that the charges in these Provinces are absurdly low is at once apparent.

123. For a long series of years a large profit has resulted from Forest Administration in these Provinces, and not only so, but notwithstanding all the defects resulting from the want of establishment, the value of the forests, as a whole, has been enormously enhanced by the increment in the growing stock of the more valuable kinds which will in time become the backbone of the revenue. So far as this branch of the administration is concerned, increased expenditure can well be afforded, and it is hoped that when the applications for increased expenditure here referred to come under consideration, they will be dealt with in a liberal spirit. It may be said that a very large increase of expenditure is being applied for within a short space of time, but this is solely due to the fact that increase of expenditure which was necessary years ago has been deferred too long, and here it may be stated that, had the increase in expenditure on account of establishment proposed by the Conservator four years ago been then sanctioned, the position of the Department for justifying further outlay would have been infinitely better than it is at present.

124. The result of the actual cash transactions of the year has been a little less favourable than usual, and under exceptionally unfavourable conditions the special protection of forests from fire has been somewhat less successful, still, the result of the year's work, as a whole, has been good. Notwithstanding a most adverse combination of circumstances for the realization of revenue, and leaving out of account the increase in the value in other assets, which probably exceeds Rs. 30,000, the receipts were only 37,000 below those of 1885-86, while notwithstanding the extent to which Divisional Officers have been overtaxed by that greatest of all present wants, viz. an efficient and sufficiently strong staff of Range officers, the year has not been unmarked by progress in forest organization and improvement.

125. Of the officers of the controlling staff, the following have a first claim to commendation for the efficiency, intelligence, and ability displayed in the discharge of their duties:—

Mr. R. H. E. Thompson, Deputy Conservator of Forests.
Mr. W. P. Thomas, Deputy Conservator of Forests.

The following officers also merit special notice :—
Captain C. W. Losack, Deputy Conservator of Forests.
Mr. G. H. Foster, Deputy Conservator of Forests.
Mr. E. Dobbs, Officiating Deputy Conservator of Forests.
Mr. H. B. Anthony, Assistant Conservator of Forests.

126. Both Mr. M. S. Fowler and Mr. A. Watson suffered from ill health, while Mr. Fowler was not more than a few months in any one charge.

127. Mr. J. Mckee, Deputy Conservator whose services have been so often favourably mentioned, was compelled by ill health to take leave shortly after rejoining the Provinces.

128. Mr. A. F. Gradon, Assistant Conservator, who first joined in December 1885, promises to prove an excellent Forest Officer.

129. Of the Sub-Assistant Conservators the following have done best :—

Mr. Chander Kumar Chatterji.
Mr. Mahomed Ghouse.

130. Among the Forest Rangers there are several who have done good service, and the following members of this section of the establishment merit special mention :—

Mahomed Kader Bux, Forest Ranger of the 1st grade.

Mahomed Sulaman, Forest Ranger of the 2nd grade.

Narayen Pershad, Forest Ranger of the 4th grade.

Nago Rao, Forest Ranger of the 6th grade.

131. The Conservator's acknowledgments are also due to many members of the office establishment, and especially those of his own office for the steady and hard work they have performed.

J. C. DOVETON,

Conservator of Forests,

Central Provinces.

*List of Appendices to the Forest Report for* 1886-87.

| Form No. | Name of Form. |
|---|---|
| 49 | Area of 1st Class Reserved forests. |
| 49A. | Area of 2nd Class Reserved forests. |
| 49B | Area of unclassed State forests or waste lands. |
| 50 | Prosecutions for breaches of Forest rules. |
| 50A. | Return of offences reported. |
| 51 | Area of forests tracts protected from fire. |
| 53 | Annual statement of trees felled or girdled by Government agency. |
| 54 | Annual statement showing the out-turn of timber and firewood. |
| 55 | Annual statement showing the out-turn of Minor Forest produce. |
| 56 | Annual Account of timber, &c., in Depôts and sold locally. |
| 57 | Annual abstract showing the value of timber and produce at sale Depôts. |
| 57A. | Annual abstract showing the value of live and dead stock. |
| 58 | Annual summary of the revenue and expenditure of the different Divisions. |
| 59 | Annual Account current. |
| 60 | Annual statement of outstandings on account of Revenue. |
| 61 | Annual statement of outstandings and liabilities on account of Contractors and Disbursers. |
| 62 | Annual statement of Financial results. |
| | *Appendices.* |
| A. | Statement showing the actual condition of boundaries and boundary marks. |
| B. | Statement showing the number of cases in which subordinates were punished during the year 1886-87. |
| C. | Statement showing the number of animals grazed and the income derived therefrom during 1886-87. |
| D. | Statement of Forest Buildings. |

# Annual Form No. 49—Prescribed.

## FOREST DEPARTMENT, CENTRAL PROVINCES.

### Area of 1st Class Reserved Forests, 1886-87.

| Division Range. | Civil District or Territory. | Name of Forest. | Area on 1st April 1886. | | Added during the year. | Excluded or transferred to other heads. | Area on 31st March 1887. | | Number and date of Notification of addition or transfer. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | | |
| Chhattisgarh Division ... | Bilaspur district.. | Hathibari .. | 2,123 | 3 | ... | ... | 2,123 | 3 | | |
| | Raipur District ... | Kuntra-nala .. | 3,548 | 6 | ... | ... | 3,548 | 6 | | |
| Mandla Division ... | Mandla District.. | Jagmandal ... | 24,503 | 38 | ... | ... | 24,503 | 38 | | |
| | Ditto ... | Chuharigogarh. | 1,660 | 3 | ... | ... | 1,660 | 3 | | |
| | Ditto .. | Banjar valley ... | 49,724 | 78 | ... | ... | 49,724 | 78 | | |
| | Ditto ... | North Phen ... | 6,435 | 10 | ... | ... | 6,435 | 10 | | |
| | Ditto ... | South Phen ... | 45,967 | 72 | ... | ... | 45,967 | 72 | | |
| | Ditto .. | Motinala ... | 1,658 | 3 | ... | ... | 1,658 | 3 | | |
| | Ditto ... | Airi .. | 2,150 | 3 | ... | ... | 2,150 | 3 | | |
| | Balaghat District | Barela ... | 7,153 | 11 | ... | ... | 7,153 | 11 | | |
| | Ditto . | Keolikapa ... | 6,296 | 10 | ... | ... | 6,296 | 10 | | |
| | Jubbulpore Dist . | Topla .. | 45,506 | 71 | ... | ... | 45, 0 | 71 | | |
| | Ditto .. | Bijeragogarh .. | 21,188 | 33 | ... | ... | 21,188 | 33 | | |
| | Damoh District .. | Lower Gour .. | 5,517 | 9 | .. | ... | 5,517 | 9 | | |
| | | Singrampur ... | 6,555 | 10 | ... | ... | 6,555 | 10 | | |
| Hoshangabad Division ... | Hoshangabad Dist. | Rajaborari .. | 1,61,645 | 253 | ... | ... | 1,61,645 | 253 | | |
| | Ditto .. | Bori .. | 39 680 | 62 | ... | ... | 39,6 0 | 62 | | |
| | Betul District .. | Saonligarh .. | 96,921 | 151 | ... | ... | 96,921 | 151 | | |
| Betul Division | Betul District ... | Bowergarh ... | 75,520 | 118 | .. | ... | 75,520 | 118 | | |
| | Ditto .. | Khamapur ... | 1,08,012 | 169 | ... | ... | 1,08,012 | 169 | | |
| Nimar Dn. ... | Hoshangabad Dist | Kalibheet ... | 1,66,400 | 260 | ... | ... | 1,66,400 | 260 | | |
| | Nimar District .. | Punassa ... | 91,720 | 143 | ... | ... | 91,720 | 143 | | |
| | Ditto ... | Chandgarh ... | 61,440 | 96 | ... | ... | 61,440 | 96 | | |
| | Ditto .. | Khandwa .. | 35,840 | 56 | ... | ... | 35,840 | 56 | | |
| | Ditto .. | Undria Baoria | 3,10 | 5 | ... | ... | 3,1 0 | 5 | | |
| | Ditto ... | Bhojwa ... | 720 | 1 | ... | ... | 720 | 1 | | |
| | Ditto ... | Beheria ... | 1,280 | 2 | ... | ... | 1,280 | 2 | | |
| | Ditto ... | Ajnal ... | 1,237 | 2 | ... | ... | 1,237 | 2 | | |
| | Ditto ... | Bainpura ... | 600 | 1 | ... | ... | 600 | 1 | | |
| | Ditto ... | Chaoria .. | 170 | ... | ... | ... | 170 | ... | | |
| | Ditto .. | Ganjari ... | 3,5 0 | 5 | ... | ... | 3,500 | 5 | | |
| | Ditto ... | Susarda .. | 853 | 1 | ... | ... | 853 | 1 | | |
| | Ditto ... | Kanapur ... | 7,6 0 | 12 | ... | ... | 7,680 | 12 | | |
| | Ditto .. | Baidya ... | 6,080 | 9 | ... | ... | 6,080 | 9 | | |
| | Ditto ... | Dehgaon .. | 1,( 00 | 2 | ... | ... | 1,000 | 2 | | |
| | Ditto .. | Telia ... | 360 | 1 | ... | ... | 360 | 1 | | |
| | Ditto .. | Borari .. | 1,760 | 3 | ... | ... | 1,760 | 3 | | |
| | Ditto ... | Dehri ... | 1,400 | 2 | ... | ... | 1,400 | 2 | | |
| | Ditto .. | Kharda ... | 3 0 | 1 | ... | ... | 360 | 1 | | |
| | Ditto ... | Andhali .. | 1,280 | 2 | ... | ... | 1,280 | 2 | | |
| | Ditto .. | Singaji .. | 14,880 | 23 | ... | ... | 14,880 | 23 | | |
| | Ditto .. | Dohad ... | 5,120 | 8 | ... | ... | 5,120 | 8 | | |
| | Ditto .. | Purni .. | | | | | | | | |
| | Ditto .. | Gondwana .. | 1,38,400 | 216 | ... | ... | 1,38,400 | 216 | | |
| | Ditto ... | Mandwa ... | 48,800 | 76 | ... | ... | 48,80 | 76 | | |
| | Ditto .. | Amba ... | 1,09,440 | 171 | ... | ... | 1,09,44 | 171 | | |
| | Ditto .. | Shamerdeo .. | 70,080 | 110 | ... | ... | 70,080 | 110 | | |

## Annual Form No. 49—Prescribed.—Continued.

### FOREST DEPARTMENT CENTRAL PROVINCES.

### Area of 1st Class Reserved Forests, 1886-87.

| Division Range. | Civil District or Territory. | Name of Forest. | Area on 1st April 1886. | | Added during the year. | Excluded or transferred to other hand. | Area on 31st March 1887. | | Number and date of Notification of addition or transfer. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles. | | |
| Nimar Division—*Contd.* | Nimar District | Jambupani ... | 74,080 | 116 | .. | ... | 74,080 | 116 | | |
| | | Jabhadavi .. | 15,200 | 24 | ... | ... | 15,200 | 24 | | |
| Chanda Dn .. | Ahiri zamindari in Chanda District. | Bimarum ... | 12,296 | 19 | ... | ... | 12,296 | 19 | | |
| | Ditto ... | Mirkalloo ... | 8,479 | 13 | ... | ... | 8,479 | 13 | | |
| | Ditto ... | Moharli ... | 2,29,612 | 359 | ... | ... | 2,29,612 | 359 | | |
| | Ditto ... | Bhanduck ... | 43,764 | 68 | ... | ... | 43,764 | 68 | | |
| Seoni Division | Balaghat and Seoni Districts ... | Sonawani .. | 52,520 | 82 | ... | ... | 52,520 | 82 | | |
| | Ditto .. | Korai ... | 62,770 | 98 | .. | ... | 62,770 | 98 | | |
| | Seoni and Nagpur Districts ... | East Pench ... | 1,23,464 | 193 | ... | ... | 1,23,464 | 193 | | |
| | Chhindwara and Nagpur Districts | West Pench .. | 60,938 | 95 | ... | ... | 60,938 | 95 | | |
| Saugor Dn ... | Saugor District .. | Garhakota ... | 2,899 | 5 | ... | ... | 2,899 | 5 | | |
| | Ditto ... | Tigora ... | 459 | 1 | *100 | ... | 559 | 1 | | |
| | Ditto .. | Rangir ... | 11,036 | 17 | ... | ... | 11,036 | 17 | | |
| | Ditto ... | Ranipura ... | 8,109 | 13 | ... | ... | 8,109 | 13 | | |
| | Ditto ... | Hathkho ... | 19,492 | 30 | ... | ... | 19,492 | 30 | | |
| Wardha Dn... | Wardha District... | Erjhur ... | 11,911 | 19 | ... | ... | 11,911 | 19 | | |
| | Ditto ... | Dhuga ... | 14,171 | 22 | ... | ... | 14,171 | 22 | | |
| | Ditto ... | Malaigaon ... | 6,590 | 10 | ... | ... | 6,590 | 10 | | |
| | | Total .. | 22,43,051 | 3,505 | 100 | ... | 22,43,151 | 3,505 | | |

* Correction of areas.

## Annual Form No. 49 A.—(*Prescribed.*)

FOREST DEPARTMENT, CENTRAL PROVINCES.

Area of 2nd Class Reserved Forests, 1886-87.

| Division Range. | Civil District or Territory. | Name of Forest. | Area on 1st April 1886. | | Added during the year. | Excluded or transferred to other heads. | Area on 31st March 1887. | | No. and date of Notification of addition or transfer. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equivalent in square miles | | |
| Nagpur Division ... | Nagpur ... | 2nd Class reserve | 2,45,235 | 383 | 190 | ... | 2,45,425 | 383 | No. 1116 dated 11th March 1887. | |
| Bhandara ditto ... | Bhandara ... | Ditto .. | 3,52,640 | 551 | ... | ... | 3,52,640 | 551 | | |
| Chanda ditto ... | Chanda ... | Ditto .. | 18,61,635 | 2,909 | ... | ... | 18,61,635 | 2,909 | | |
| Wardha ditto ... | Wardha ... | Ditto .. | 95,362 | 149 | ... | ... | 95,362 | 149 | | |
| Civil officer .. | Balaghat ... | Ditto .. | 6,14,562 | 960 | ... | ... | 6,14,562 | 960 | | |
| Ditto .. | Jubbulpore ... | Ditto ... | 2,10,582 | 329 | ... | ... | 2,10,582 | 329 | | |
| Saugor Division ... | Saugor ... | Ditto ... | 4,74,488 | 742 | ... | ... | 4,74,488 | 742 | | |
| Civil officer .. | Damoh ... | Ditto ... | 5,34,770 | 836 | ... | .. | 5,34,770 | 836 | | |
| Seoni Division ... | Seoni .. | Ditto .. | 3,54,306 | 554 | ... | | 3,54,306 | 554 | | |
| Civil officer ... | Mandla ... | Ditto ... | 14,00,212 | 2,188 | 3,13,380 | ... | 17,13,592 | 2,677 | | |
| Betul Division ... | Betul ... | Ditto ... | 5,45,482 | 852 | ... | ... | 5,45,482 | 852 | | Correction of areas. |
| Civil officer ... | Chhindwara ... | Ditto ... | 4,10,412 | 641 | ... | ... | 4,10,412 | 641 | | |
| Hoshangabad Division ... | Hoshangabad ... | Ditto ... | 7,58,184 | 1,185 | ... | ... | 7,58,184 | 1,185 | | |
| Civil officer ... | Narsinghpur .. | Ditto ... | 1,23,712 | 193 | ... | ... | 1,23,712 | 193 | | |
| Nimar Division ... | Nimar ... | Ditto ... | 4,58,427 | 716 | 533 | ... | 4,58,960 | 717 | No. 3588 dated 7th August 1886. | |
| Civil officer ... | Raipur ... | Ditto ... | 8,81,280 | 1,377 | ... | ... | 8,81,280 | 1,377 | | |
| Ditto .. | Sambalpur ... | Ditto ... | 4,57,600 | 715 | ... | ... | 4,57,600 | 715 | | |
| Ditto ... | Bilaspur ... | Ditto ... | 4,15,360 | 649 | 19,620 | ... | 4,34,980 | 680 | | Correction of areas. |
| | | | 101,94,249 | 15,929 | 3,33,723 | ... | 105,27,972 | 16,450 | | |

## Annual Form No. 49 B.—(*Prescribed.*)

FOREST DEPARTMENT—CENTRAL PROVINCES.

Area of unclassed State Forests or waste lands 1886-87.

| Division Range. | Civil District or Territory. | Name of Forest. | Area on 1st April 1886. | | Added during the year. | Excluded or transferred to other heads. | Area on 31st March 1887. | | No. and date of Notification of addition or transfer. | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acres. | Equivalent in square miles. | Acres. | Acres. | Acres. | Equiv lent in square miles. | | |
| Seoni Division ... | Seoni District ... | Unclassed State Forests .. | 1,25,587 | 196 | ... | .. | 1,25,587 | 196 | | |
| Nagpur Division ... | Nagpur District ... | Ditto .. | 4,517 | 7 | ... | *190 | 4,327 | 7 | | *Transferred to the 2nd class Reserves. |
| Civil Officer ... | Damoh District ... | Ditto ... | 14,458 | 23 | ... | ... | 14,458 | 23 | | |
| Ditto ... | Balaghat District ... | Ditto ... | 47,281 | 74 | ... | ... | 47,281 | 74 | | |
| Ditto ... | Chhindwara District .. | Ditto ... | 5,906 | 9 | ... | ... | 5,906 | 9 | | |
| Chanda Division .. | Ahiri Zamindari in Chanda District ... | New Ahiri unclassed State Forests. | 60,591 | 95 | ... | ... | 60,591 | 95 | | Under Notification for reserved forests. |
| Ditto ... | Chanda District .. | Mouljhari and Phuljhari | 232 | | | | 232 | | | |
| | | Total ... | 2,58,572 | 404 | ... | 190 | 2,58,382 | 404 | | |

## Annual Form No. 50.—Prescribed.

### FOREST DEPARTMENT, CENTRAL PROVINCES.

### Prosecutions for breaches of Forest Rules during 1886-87.

| Forest Division and Civil District. | Cases pending from 1885-86. | New cases of the year. | | | | | Disposed of during the year. | | | | | | Cases pending at close of year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Injury to forest by fire. | Unauthorized felling or appropriation of wood and minor forest produce. | Grazing without permission or in tracts in which grazing is prohibited. | Other offences. | Total new cases of the year. | Total cases. | Convicts. | | Acquittals. | | Total. | |
| | | | | | | | | Cases. | Persons. | Cases. | Persons. | Cases. | Persons. |
| *1st Class Reserves.* | | | | | | | | | | | | | |
| Mandla Division | ... | 1 | 1 | ... | 1 | 3 | 3 | 3 | 6 | .. | ... | 3 | 6 | ... |
| Hoshangabad do. | .. | ... | ... | 1 | ... | ... | 1 | 1 | 5 | ... | ... | 1 | 5 | ... |
| Betul do. | ... | . | 1 | ... | .. | .. | 1 | 1 | 1 | ... | 1 | 1 | 2 | ... |
| Nimar do. | ... | ... | 1 | 2 | ... | 4 | 7 | 7 | 4 | 7 | 3 | 3 | 7 | 10 | ... |
| Chanda do. | ... | ... | ... | .. | ... | ... | ... | .. | ... | ... | ... | ... | ... | .. | ... |
| Seoni do. | ... | ... | ... | ... | ... | ... | ... | .. | ... | .. | ... | ... | ... | ... | ... |
| Saugor do. | ... | ... | ... | .. | ... | ... | .. | .. | ... | . | .. | .. | .. | ... | ... |
| Wardha District | ... | ... | .. | 1 | 1 | ... | 2 | 2 | 1 | 1 | 1 | 3 | 2 | 4 | ... |
| Total | ... | ... | 3 | 5 | 1 | 5 | 14 | 14 | 10 | 20 | 4 | 7 | 14 | 27 | ... |
| *2nd Class Reserves.* | | | | | | | | | | | | | | | |
| Nagpur | ... | .. | ... | 7 | 4 | 4 | 15 | 15 | 13 | 42 | 2 | 2 | 15 | 44 | ... |
| Bhandara | ... | 1 | 1 | 2 | 4 | 3 | 10 | 11 | 7 | 45 | 1 | 3 | 8 | 48 | 3·18 |
| Chanda | ... | ... | ... | 6 | ... | .. | 6 | 6 | 5 | 10 | 1 | 2 | 6 | 12 | ... |
| Wardha | ... | ... | .. | ... | .. | ... | .. | ... | .. | | ... | ... | ... | .. | ... |
| Balaghat | ... | ... | ... | 4 | ... | ... | 4 | 4 | 4 | 7 | .. | .. | 4 | 7 | ... |
| Jubbulpore | ... | ... | 1 | 37 | 21 | 1 | 60 | 60 | 47 | 171 | 13 | 43 | 60 | 214 | ... |
| Saugor | ... | ... | 2 | 8 | 4 | 2 | 16 | 16 | 10 | 14 | 5 | 9 | 15 | 23 | 1·1 |
| Damoh | ... | ... | 1 | 6 | ... | ... | 7 | 7 | 5 | 16 | 2 | 2 | 7 | 18 | ... |
| Mandla | ... | ... | ... | 85 | 1 | 13 | 99 | 99 | 71 | 195 | 28 | 48 | 99 | 243 | ... |
| Seoni | ... | ... | .. | 5 | .. | 1 | 6 | 6 | 5 | 10 | 1 | 1 | 6 | 11 | ... |
| Betul | ... | ... | .. | 46 | 15 | .. | 61 | 61 | 40 | 56 | 21 | 99 | 61 | 155 | ... |
| Chhindwara | ... | .. | ... | 20 | 7 | 1 | 28 | 28 | 24 | 85 | 4 | 9 | 28 | 94 | ... |
| Narsinghpur | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | . | ... | ... |
| Hoshangabad | ... | ... | ... | 57 | 1 | ... | 58 | 58 | 57 | 81 | 1 | 3 | 58 | 84 | ... |
| Nimar | ... | ... | ... | 1 | ... | .. | 1 | 1 | 1 | 1 | ... | ... | 1 | 1 | ... |
| Raipur | .. | ... | ... | 9 | 5 | 6 | 20 | 20 | 19 | 47 | 1 | 24 | 20 | 71 | ... |
| Sambalpur | ... | ... | ... | 10 | 1 | ... | 11 | 11 | 10 | 29 | 1 | 4 | 11 | 33 | ... |
| Bilaspur | ... | 1 | 1 | 5 | .. | ... | 6 | 7 | 5 | 8 | 2 | 3 | 7 | 11 | ... |
| Total | ... | 2 | 6 | 308 | 63 | 31 | 408 | 410 | 323 | 817 | 83 | 252 | 406 | 1,069 | 4·19 |
| Grand Total | ... | 2 | 9 | 313 | 64 | 36 | 422 | 424 | 333 | 837 | 87 | 259 | 420 | 1,096 | 4·19 |

## Form No. 50 A.

### FOREST DEPARTMENT, CENTRAL PROVINCES.

### Return of Forest Offences reported with detail of disposals for the year 1886-87,

| Forest Divisions and Civil Districts. | Cases pending at commencement of the year. | New cases of the year. | | | | | Total cases. | Cases in which offenders were not detected. | Balance of cases for disposal. | Disposed of during the year. | | | | | | | | Cases pending at close of the year. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Injury to forest by fire | Unauthorized felling or appropriation of wood and minor forest produce. | Grazing without permission or in tracts in which grazing is prohibited. | Other offences. | Total new cases of the year. | | | | Prosecuted, *vide* Form No. 50. | | Compounded. | | Dismissed as being without grounds, not proved or too triavl. | | Total. | | | |
| | | | | | | | | | | Cases. | Persons. | Cases. | Persons. | Cases. | Persons | Cases. | Persons. | Cases. | Persons. |
| ***Ist Class Reserves.*** | | | | | | | | | | | | | | | | | | | |
| Mandla Division | 1 | 2 | 5 | 3 | 5 | 15 | 16 | .. | 16 | 3 | 6 | 9 | 37 | 4 | 14 | 16 | 57 | ... | ... |
| Hoshangabad do... | .. | . | 9 | 6 | .. | 15 | 15 | ... | 15 | 1 | 5 | 10 | 18 | 4 | 4 | 15 | 27 | ... | |
| Betul do... | .. | 1 | 1 | 3 | ... | 5 | 5 | .. | 5 | 1 | 2 | 4 | 4 | ... | ... | 5 | 6 | ... | ... |
| Nimar do... | .. | 2 | 103 | 64 | 9 | 178 | 178 | 3 | 175 | 7 | 10 | 150 | 388 | 12 | 32 | 169 | 430 | 6 | 21 |
| Chanda do... | 22 | . | 38 | 28 | 4 | 70 | 92 | .. | 92 | .. | ... | 50 | 145 | 3 | 3 | 53 | 148 | 39 | 132 |
| Seoni do . | .. | . | 35 | 32 | 5 | 72 | 72 | .. | 72 | ... | ... | 72 | 116 | ... | .. | 72 | 116 | ... | ... |
| Saugor do... | 4 | . | 42 | 89 | 3 | 134 | 138 | .. | 138 | .. | ... | 119 | 269 | 2 | 10 | 121 | 279 | 17 | 33 |
| Wardha do... | .. | . | 7 | 5 | .. | 12 | 12 | .. | 12 | 2 | 4 | 4 | 4 | 5 | 5 | 11 | 13 | 1 | 2 |
| Total ... | 27 | 5 | 240 | 230 | 26 | 501 | 528 | 3 | 525 | 14 | 27 | 418 | 981 | 30 | 68 | 462 | 1,076 | 63 | 188 |
| ***2nd Class Reserves.*** | | | | | | | | | | | | | | | | | | | |
| Nagpur .. | 21 | .. | 216 | 108 | 4 | 328 | 349 | .. | 349 | 15 | 44 | 304 | 1,074 | 11 | 164 | 330 | 1,282 | 19 | 106 |
| Bhandara ... | 1 | 1 | 126 | 38 | 27 | 192 | 193 | .. | 193 | 11 | 66 | 151 | 640 | 31 | 95 | 193 | 801 | ... | ... |
| Chanda .. | 237 | . | 740 | 682 | .. | 1,422 | 1,659 | 17 | 1,642 | 6 | 12 | 1,042 | 2,968 | 71 | 92 | 1,119 | 3,072 | 523 | 2,202 |
| Wardha ... | 9 | . | 24 | 34 | ... | 58 | 67 | .. | 67 | ... | ... | 30 | 155 | 24 | 65 | 54 | 220 | 13 | 35 |
| Balaghat ... | .. | | 67 | ... | ... | 67 | 67 | ... | 67 | 4 | 7 | 63 | 202 | ... | ... | 67 | 209 | ... | ... |
| Jubbulpore .. | .. | 1 | 47 | 45 | 1 | 94 | 94 | ... | 94 | 60 | 214 | 34 | 125 | .. | ... | 94 | 339 | ... | ... |
| Saugor ... | 117 | 2 | 604 | 595 | 2 | 1,203 | 1,320 | ... | 1,320 | 16 | 24 | 1,148 | 2,816 | 49 | 93 | 1,213 | 2,933 | 107 | 341 |
| Damoh ... | ... | 1 | 111 | 94 | .. | 206 | 206 | .. | 206 | 7 | 18 | 199 | 633 | ... | ... | 206 | 651 | ... | ... |
| Mandla .. | ... | . | 85 | 101 | 46 | 232 | 232 | .. | 232 | 99 | 243 | 133 | 483 | ... | ... | 232 | 726 | ... | ... |
| Seoni .. | ... | .. | 188 | 380 | 1 | 569 | 569 | ... | 569 | 6 | 11 | 563 | 4,299 | ... | ... | 569 | 4,310 | ... | ... |
| Betul ... | .. | ... | 263 | 24 | ... | 287 | 287 | ... | 287 | 61 | 155 | 226 | 262 | ... | ... | 287 | 417 | ... | ... |
| Chhindwara ... | ... | 5 | 256 | 219 | 1 | 481 | 481 | 5 | 476 | 28 | 94 | 448 | 448 | ... | .. | 476 | 542 | ... | ... |
| Narsinghpnr .. | ... | . | 40 | 35 | ... | 75 | 75 | ... | 75 | .. | ... | 67 | 420 | 8 | 13 | 75 | 439 | ... | ... |
| Hoshangabad .. | .. | .. | 136 | 10 | .. | 146 | 146 | ... | 146 | 58 | 84 | 81 | 196 | 7 | 13 | 146 | 293 | ... | ... |
| Nimar ... | .. | . | 62 | 25 | ... | 87 | 87 | .. | 87 | 1 | 1 | 81 | 196 | 3 | 9 | 85 | 206 | 2 | 3 |
| Raipur .. | 28 | ... | 115 | 107 | 195 | 417 | 445 | .. | 445 | 20 | 71 | 392 | 1,878 | 5 | 24 | 417 | 1,973 | 28 | 108 |
| Sambalpur .. | .. | 6 | 683 | 124 | .. | 813 | 813 | 12 | 801 | 11 | 33 | 787 | 806 | 3 | 3 | 801 | 842 | ... | ... |
| Bilaspur .. | 1 | 1 | 53 | 36 | 44 | 134 | 135 | ... | 135 | 7 | 11 | 97 | 221 | 22 | 24 | 126 | 256 | 9 | 32 |
| Total ... | 414 | 17 | 3,816 | 2,657 | 321 | 6,811 | 7,225 | 34 | 7,191 | 410 | 1,088 | 5,846 | 17,828 | 234 | 595 | 6,490 | 19,511 | 701 | 2,827 |
| Grand Total .. | 441 | 22 | 4,056 | 2,887 | 347 | 7,312 | 7,753 | 37 | 7,716 | 424 | 1,115 | 6,264 | 18,809 | 264 | 663 | 6,952 | 20,587 | 764 | 3,015 |

Annual Form No. 51.—Prescribed.

FOREST DEPARTMENT, CENTRAL PROVINCES.

Area of Forest Tracts protected from Fire during the dry season 1887, to accompany Report for 1886-87.

| Division. | Forest tracts. | Year in which protection commenced. | Area actually protected up to 15th June 1886. | During dry season of 1887. | | | Cost during the season. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | | | Area attempted to be protected. | Failures. | Actually protected. | | |
| | 1ST CLASS RESERVES. | | Acres. | Acres. | Acres. | Acres. | Rs: a. p. | |
| Chhattisgarh Division | Hathibari | June 1870 | 2,123 | 2,123 | ... | 2,123 | 70 9 7 | |
| | Kuntranala | 1876 | 3,548 | 3,548 | ... | 3,548 | 62 11 2 | |
| | Total | ... | 5,671 | 5,671 | ... | 5,671 | 133 4 9 | |
| Mandla Division | Bunjar Valley forests | 1876 | 49,724 | 49,724 | 25 | 49,699 | 791 11 7 | |
| | Motinala | 1875 | 1,658 | 1,658 | ... | 1,658 | 58 12 7 | |
| | Jugmundal | 1867 | 24,503 | 24,503 | 12 | 24,491 | 629 13 11 | |
| | Chobarigogarh | 1872 | 1,660 | 1,660 | ... | 1,660 | 85 10 8 | |
| | Barela | 1878 | 7,153 | 7,153 | ... | 7,153 | 205 5 0 | |
| | Airi | 1867 | 2,150 | 2,150 | ... | 2,150 | 57 8 6 | |
| | Singrampur | 1871 | 5,953 | 6,555 | ... | 6,555 | 169 0 10 | |
| | Bijragogarh | 1871 | 21,188 | 21,188 | 1,200 | 19,988 | 520 2 3 | |
| | Lower Gour | 1882 | 5,517 | 5,517 | 1 | 5,516 | 251 5 2 | |
| | Topla | 1886 | ... | 39,852 | 50 | 39,802 | 154 13 8 | |
| | Total | ... | 1,19,506 | 1,59,960 | 1,288 | 1,58,672 | 2,924 4 2 | |
| Hoshangabad Division | Rajaborari — Machak | 1875 | 10,240 | 12,800 | ... | 12,800 | 219 7 5 | |
| | Rajaborari — Gunjal | 1875 | 54,080 | 54,080 | ... | 54,080 | 927 4 11 | |
| | Rajaborari — Ajnal | 1875 | 38,400 | 46,080 | ... | 46,080 | 790 2 2 | |
| | Saonligarh — Dekhna | 1875 | 49,920 | 49,920 | ... | 49,920 | 657 7 4 | |
| | Saonligarh — Tokra | 1875 | 28,100 | 28,160 | ... | 28,160 | 370 14 3 | |
| | Saonligarh — Poplia | 1886 | ... | 10,880 | ... | 10,880 | 143 4 4 | |
| | Bori — Bori | 1864 | 23,680 | 23,680 | ... | 23,680 | 474 6 3 | |
| | Bori — Dhain | 1879 | 16,000 | 16,000 | 1,120 | 14,880 | 298 2 3 | |
| | Total | ... | 2,20,420 | 2,41,600 | 1,120 | 2,40,480 | 3,881 0 11 | |

Form No. 51.—(Contd.)

FOREST DEPARTMENT, CENTRAL PROVINCES.

| Division. | Forest tracts. | Year in which protection commenced. | Area actually protected up to 15th June 1886. | During dry season of 1887. | | | Cost during the season. | Remarks. |
|---|---|---|---|---|---|---|---|---|
| | | | | Area attempted to be protected. | Failures. | Actually protected. | | |
| | | | Acres. | Acres. | Acres. | Acres. | Rs. a. p. | |
| Nimar Division ... | Kalibheet ... ... | June 1874 ... | 62,031 | 62,080 | 17,920 | 44,160 | 426 9 7 | |
| | Punasa Block No. I. ... | 1875 ... | 76,80 | 7,680 | ... | 7,680 | 99 9 1 | |
| | Ditto No. II. ... | 1875 .. | 97,20 | 9,720 | ... | 9,720 | 126 0 3 | |
| | Ditto No. III. .. | 1875 ... | 62,06 | 6,680 | ... | 6,680 | 86 9 8 | |
| | Ditto No. IV. ... | 1875 ... | 9,040 | 9,840 | ... | 9,840 | 127 9 2 | |
| | Ditto No. V. .. | 1875 ... | 9,600 | 9,600 | 8,615 | 985 | 12 12 5 | |
| | Ditto No. VI. ... | 1877 .. | 10,880 | 10,880 | 3,413 | 7,467 | 96 12 11 | |
| | Ditto No. VII. ... | 1879 ... | 9,180 | 9,180 | 3,094 | 6,086 | 78 14 6 | |
| | Ditto No. VIII. ... | 1880 ... | 4,308 | 8,500 | 30 | 8,470 | 109 13 0 | |
| | Ditto No. IX. .. | 1881 ... | 3,260 | 8,960 | 825 | 8,135 | 105 7 6 | |
| | Ditto No. X. .. | 1882 ... | 9,640 | 10,880 | ... | 10,880 | 141 1 3 | |
| | Chandgarh ... .. | 1878 ... | 30,903 | 61,440 | 510 | 60,930 | 977 12 4 | |
| | Khandwa ... ... | 1878 ... | 34,920 | 35,840 | 677 | 35,163 | 823 2 11 | |
| | Bainpura ... .. | 1879 ... | 600 | 600 | ... | 600 | 18 14 10 | |
| | Gunjari ... ... | 1879 ... | 3,500 | 3,500 | ... | 3,500 | 52 1 7 | |
| | Undria Baoria .. | 1879 ... | 2,836 | 3,100 | ... | 3,100 | 41 13 10 | |
| | Bhojwa Beheria ... | 1879 ... | 2,000 | 2,000 | ... | 2,000 | 49 1 4 | |
| | Ajnal ... ... | 1879 ... | 1,500 | 1,500 | ... | 1,500 | 28 6 0 | |
| | Chaoria ... .. | 1880 ... | 170 | 170 | ... | 170 | ..... | |
| | Total ... | ... | 2,17,968 | 262,150 | 35,084 | 2,27,066 | 3,402 8 2 | |
| Betul Division ... | Bowergarh ... ... | 1875 ... | 38,720 | 38,720 | ... | 38,720 | 1,055 2 4 | |
| | Khamapur ... ... | 1875 ... | 15,988 | 16,000 | .. | 16,000 | 332 14 11 | |
| | Total ... | ... | 54,708 | 54,720 | ... | 54,720 | 1,388 1 3 | |
| Chanda Division ... | Bimarum ... Whole... | 1873 ... | 12,296 | 12,296 | ... | 12,296 | 637 2 11 | |
| | Mirkalloo ... „ ... | 1875 ... | 8,479 | 8,479 | ... | 8,479 | 655 3 5 | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Taroba block ... | | ,, ... | June | 1873 ... | 25,619 | 25,619 | 20,092 | 5,527 | 1,025 | 2 3 |
| | Goverdhun ... | | ,, ... | | 1874 ... | 13,931 | 13,931 | ... | 13,931 | 413 | 15 11 |
| | Pipalkota ... | | Part ... | | 1882 ... | 1,280 | 16,423 | 1,920 | 14,503 | 774 | 3 6 |
| | | | Total ... | | ... | 61,605 | 76,748 | 22,012 | 54,736 | 3,505 | 12 0 |
| Seoni Division | ... Korai Range | Korai Block | ... | | 1869 ... | 31,210 | 31,210 | ... | 31,210 | 824 | 14 2 |
| | Do. | Sakata | ... | | 1880 ... | 10,020 | 10,020 | ... | 10,020 | 264 | 13 4 |
| | East Pench | Part only | ... | | 1875 ... | 42,580 | 42,580 | 12,640 | 29,940 | 708 | 7 7 |
| | West Pench | Nagulwari block | ... | | 1878 ... | 9,675 | 9,680 | ... | 9,680 | 119 | 4 10 |
| | Do. | Paraspani block | ... | | 1879 ... | 8,240 | 8,240 | ... | 8,240 | 98 | 12 0 |
| | Do. | Narhar block | ... | | 1881 .. | 39,040 | 39,040 | ... | 39,040 | 510 | 0 0 |
| | | | Total ... | | ... | 1,40,765 | 1,40,770 | 12,640 | 1,28,130 | 2,526 | 3 11 |
| Saugor Division | ... Garhakota | | Whole ... | | 1875 ... | 2,899 | 2,899 | 16 | 2,883 | 17 | 9 8 |
| | Hatbko | | Part only ... | | 1875 ... | 10,598 | 10,598 | 364 | 10,234 | 273 | 4 8 |
| | Rangir | | ,, ... | | 1875 ... | 1,987 | 1,987 | ... | 1,987 | 44 | 13 4 |
| | Ranipura | | ,, ... | | 1879 .. | 2,720 | 2,720 | ... | 2,720 | 77 | 7 10 |
| | Tigora | | ,, .. | | 1879 ... | 459 | 559 | ... | 559 | ..... | |
| | | | Total ... | | ... | 18,663 | 18,763 | 380 | 18,383 | 413 | 3 6 |
| Wardha Division | ... Dhuga ... | | Whole ... | | 1880 .. | 14,101 | 14,171 | 245 | 13,926 | 447 | 13 0 |
| | Erjhur ... | | ,, ... | | 1880 ... | 11,816 | 11,911 | 890 | 11,021 | 245 | 7 6 |
| | | | Total ... | | ... | 25,917 | 26,082 | 1,135 | 24,947 | 693 | 4 6 |
| | | | Total 1st Class Reserves ... | | ... | 8,65,223 | 9,86,464 | 73,659 | 9,12,805 | 18,867 | 11 2 |
| | | | 2ND CLASS RESERVES. | | | | | | | | |
| Saugor Division | ... Jalundhar ... | | Whole ... | | 1880 ... | 2,885 | 2,885 | ... | 2,885 | 40 | 0 0 |
| | Hiranpur Bassa | | ,, ... | | 1886 .. | ... | 1,485 | ... | 1,485 | 41 | 3 5 |
| | | | Total ... | | ... | 2,885 | 4,370 | ... | 4,370 | 81 | 3 5 |
| ivision | ... Pandratola ... | | Whole ... | | 1872 ... | 4,761 | 4,817 | ... | 4,817 | 85 | 8 1 |
| | | | Total 2nd Class Reserves ... | | ... | 7,646 | 9,187 | ... | 9,187 | 166 | 11 6 |
| | | | Grand Total ... | | ... | 8,72,869 | 9,95,651 | 73,659 | 9,21,992 | 19,034 | 6 8 |

## Form No. 53.

FOREST DEPARTMENT, CENTRAL PROVINCES.

Trees felled or girdled by Government Agency during the year 1886-87.

(Selection fellings.)

| Division. | Trees felled or girdled. | | Remarks. |
|---|---|---|---|
| | Description. | Number. | |
| Mandla Division ... ... | Sal trees ... | 1,209 | |
| Balaghat District ... ... | Sal trees ... | 210 | Dead trees. |
| | Total ... | 1,419 | |

Form No. 54.—Prescribed.

FOREST DEPARTMENT, CENTRAL PROVINCES.

Outturn of Timber and Firewood during the year 1886-87.

| Division. | Description of materials. | | Outturn. | | | | | | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Selection fellings. | Clearances. | Thinnings. | Total. | Removed by | | | | |
| | | | | | | | Government Agency. | | Purchasers. | Free grants. | Right holders. |
| | | | | | | | No. | Cft. | | | |
| Mandla Division 1st Class (Forests) | Saj trees | ... | ... | ... | ... | .. | | | | | |
| | Sal trees | ... | 1,209 | ... | ... | 1,209 | | | ... 5 | | |
| | Sal logs | ... | ... | ... | ... | ... | 4 | 117 | ... | | |
| | Tendoo logs | ... | ... | ... | ... | ... | 2 | ... | ... | | |
| | Sal sleepers 10 × 10 × 5 | ... | ... | ... | ... | ... | 6,924 | 24,024 | ... | | |
| | Bridge sleepers | ... | ... | ... | ... | ... | 101 | 575 | ... | | |
| | Sal scantlings | ... | ... | ... | ... | ... | 190 | 1,513 | ... | | |
| | Sal bullees | ... | ... | ... | ... | ... | 1 | 8 | ... | | |
| | Teak pieces and poles | .. | ... | ... | 1,849 | 1,849 | 1,849 | ... | ... | | |
| | Poles and pieces other than teak and Sal | ... | ... | 252 | ... | 252 | 252 | ... | 1,547 | | |
| | Sal fardas | ... | ... | .. | ... | ... | 465 | ... | ... | | |
| | Teak stumps | .. | ... | 4 | ... | 4 | 4 | ... | ... | | |
| | Sal props | ... | ... | ... | ... | ... | 1,300 | ... | ... | | |
| | Boats | ... | ... | ... | ... | ... | 2 | ... | ... | | |
| | Firewood Maunds | .. | ... | ... | ... | ... | 4,781 | ... | 75 | | |
| | ditto Cart loads | .. | ... | ... | ... | ... | | ... | 30 | | |
| | ditto Kawar loads | ... | ... | ... | ... | ... | | ... | 120 | | |
| | ditto Head loads | ... | ... | ... | .. | ... | | ... | 56 | | |
| | ditto Bundles | ... | ... | ... | ... | ... | | ... | 1,113 | | |
| | uboos | No. | ... | ... | ... | ... | 1,59,273 | ... | 30,278 | | |
| | to Bundles | .. | ... | ... | ... | ... | | ... | 868 | | |
| | Total | ... | 1,209 | 256 | 1,849 | 3,314 | 1,75,148 | 26,237 | 34,092 | | |

Form No. 54.—Prescribed.—(Contd.)

| | Description of material. | | Outturn— | | | | | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Selection Fellings. | Clearances. | Thinnings. | Total. | Removed by— Government Agency. | Purchasers. | Free grants. | Right holders. | |
| | | | | | | | No. Cft. | | | | |
| ...t Division 1st Class Forests. | Building wood, Cart loads | .. | ... | ... | ... | ... | .. | 8 | | | |
| | ditto Head loads | ... | ... | ... | ... | | ... | 1,549 | | | |
| | ditto Yoke loads | ... | ... | ... | .. | ... | ... | 22 | | | |
| | ditto Karas loads | ... | ... | ... | ... | ... | ... | 18 | | | |
| | Teak poles and pieces | No. | ... | ... | ... | ... | ... | 29 | | | |
| | ditto Cart loads | ... | ... | ... | ... | ... | ... | 29 | | | |
| | ditto Joti loads | .. | ... | ... | ... | ... | ... | 1,065 | | | |
| | ditto Head loads | ... | ... | ... | ... | ... | ... | 118 | | | |
| | ditto Jawara loads | ... | ... | ... | ... | ... | ... | 1,362 | | | |
| | ditto Yoke loads | ... | ... | ... | ... | ... | ... | 326 | | | |
| | ditto Karas loads | ... | ... | ... | ... | .. | ... | 1,003 | | | |
| | Poles and pieces other than teak and sal | No. | ... | ... | ... | ... | ... | 1 | | | |
| | ditto cart loads | ... | ... | ... | .. | ... | ... | 254 | | | |
| | ditto joti loads | ... | ... | ... | ... | ... | ... | 360 | | | |
| | ditto jawaras loads | ... | ... | ... | ... | ... | .. | 318 | | | |
| | ditto yoke loads | ... | ... | ... | ... | ... | ... | 16 | | | |
| | ditto karas loads | ... | ... | ... | ... | ... | ... | 198 | | | |
| | Firewood Head loads | ... | ... | ... | ... | ... | ... | 43,470 | | | |
| | Bamboos | No. | ... | ... | ... | ... | ... | 40,068 | | | |
| | Total | ... | ... | ... | ... | ... | ... | 90,214 | | | |
| Betul District Forests ... | Teak trees | No, | ... | ... | ... | ... | ... | 17 | | | |
| | Trees other than teak and sal | ... | ... | ... | ... | ... | ... | 3 | | | |
| | Teak poles and pieces | No | .. | ... | ... | ... | ... | 581 | | | |
| | Poles and pieces other than teak and sal | ... | ... | ... | ... | ... | ... | 91 | | | |
| | ditto cart loads | .. | ... | ... | ... | ... | ... | 6 | | | |
| | ditto head loads | .. | ... | ... | ... | ... | ... | 46 | | | |
| | Building wood | No | ... | ... | ... | ... | ... | 967 | | | |
| | ditto cart loads | ... | ... | ... | ... | ... | ... | 1,211 | | | |
| | ditto head loads | ... | ... | .. | ... | ... | ... | 14,437 | | | |
| | ditto jawaras loads | ... | ... | ... | ... | ... | ... | 26 | | | |
| | ditto bullock loads | .. | ... | ... | ... | ... | ... | 3 | | | |
| | ditto buffalo load | ... | ... | ... | ... | ... | ... | 1 | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Betul district Forests—Continued. | | ditto karas loads | ... | ... | ... | ... | ... | 627 |
| | Firewood pieces | | No. | ... | ... | ... | ... | 18 |
| | | ditto cart loads | ... | ... | ... | ... | ... | 3,160 |
| | | ditto head loads | ... | ... | ... | ... | ... | 2,014 |
| | Firewood jawaras loads | | ... | ... | ... | ... | ... | 27 |
| | | ditto bullock loads | ... | ... | ... | ... | ... | 323 |
| | | ditto karas loads | ... | ... | ... | ... | ... | 442 |
| | Charcoal cart loads | | ... | ... | ... | ... | ... | 8 |
| | ditto head loads | | ... | ... | ... | ... | ... | 646 |
| | ditto bullock loads | | ... | ... | ... | ... | ... | 38 |
| | Bamboos | | No. | ... | ... | ... | ... | 5,10,375 |
| | ditto head loads | | ... | ... | ... | ... | ... | 16 |
| | ditto materials | | No. | ... | ... | ... | ... | 68 |
| | | Total | ... | ... | ... | ... | ... | 5,35,146 |
| | | Grand Total | ... | ... | ... | ... | ... | 6,25,306 |
| Hoshangabad 1st Class Forests. | Logs other than teak and sal | | ... | ... | ... | ... | 1 | ... |
| | Trees other than teak and sal | | ... | ... | ... | ... | 1 | 5 |
| | Teak poles and pieces | | ... | ... | ... | ... | 4,869 | 9 |
| | Poles and pieces other than teak and sal | | ... | ... | ... | ... | 76 | 6,512 |
| | ditto 2 bullock cart loads | | ... | ... | ... | ... | 120 | 100 |
| | ditto head loads | | ... | ... | ... | ... | 41 | 13 |
| | ditto 4 bullock cart loads | | ... | ... | ... | ... | ... | 6 |
| | ditto cubic feet | | ... | ... | ... | ... | ... | 7 |
| | Firewood 2 bullock cart loads | | ... | ... | ... | ... | 145 | 1,458 |
| | ditto head load loads | | ... | ... | ... | ... | 2 | 1,097 |
| | ditto 4 bullock carts loads | | ... | ... | ... | ... | ... | 67 |
| | Charcoal head loads | | ... | ... | ... | ... | ... | 24 |
| | ditto cart loads | | ... | ... | ... | ... | 2 | ... |
| | Bamboos | | No. | ... | ... | ... | 1,489 | 3,13,640 |
| | Bamboo fabrics head loads | | ... | ... | ... | ... | 2 | 2,926 |
| | ditto bangy loads | | ... | ... | ... | ... | ... | 685 |
| | ditto do. | | ... | ... | ... | ... | 16 | ... |
| | | Total | .. | ... | ... | ... | 6,764 | 3,26,549 |
| | Trees other than teak and sal | | ... | ... | ... | ... | ... | 5 |
| | Teak poles and pieces | | No. | ... | ... | ... | .. | 3,419 |
| | ...es and pieces other than teak and sal | | „ | ... | ... | ... | ... | 38 |
| | ...ing wood | | „ | ... | ... | ... | ... | 110 |
| | ... 2 bullock cart loads | | ... | ... | ... | ... | ... | 5,524 |
| | ... head load lodss | | ... | ... | ... | ... | ... | 21,302 |
| | ... joti loads | | ... | ... | ... | ... | ... | 48 |
| | ... bullock cart loads | | ... | ... | ... | ... | ... | 82 |

Form No. 54.—Prescribed.—(Contd).

| | Description of materials. | | Outturn. | | | | | | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Selection fellings. | Clearances. | Thinnings. | Total. | Removed by— | | | | |
| | | | | | | | Government Agency. | | Purchasers. | Free grants. | Right holders. |
| | | | | | | | No. | Cft. | | | |
| Hoshangabad District Forests—Contd. | Building wood, donkey loads | ... | ... | ... | ... | ... | | ... | 2 | | |
| | Firewood 2 bullock cart loads | ... | ... | .. | ... | ... | | ... | 22,481 | | |
| | ditto head loads | ... | ... | ... | ... | ... | | ... | 22,526 | | |
| | ditto 4 bullock cart loads | ... | ... | ... | ... | ... | | ... | 3,926 | | |
| | Firewood, donkey loads | ... | ... | ... | ... | ... | | ... | 1,426 | | |
| | ditto poney loads | ... | ... | ... | ... | ... | | ... | 43 | | |
| | Charcoal, 2 bullock cart loads | ... | ... | ... | ... | ... | | ... | 103 | | |
| | ditto head loads | ... | ... | ... | ... | ... | | ... | 2,911 | | |
| | ditto donkey loads | ... | ... | ... | ... | ... | | ... | 1 | | |
| | Bamboos | No. | ... | ... | ... | ... | | ... | 8,42,212 | | |
| | ditto 2 bullock cart loads | .. | ... | ... | ... | ... | | ... | 50 | | |
| | ditto head loads | ... | ... | ... | ... | ... | | ... | 3,057 | | |
| | ditto fabrics bangy loads | ... | ... | ... | ... | ... | | ... | 86 | | |
| | Total | ... | ... | ... | ... | ... | ... | | 9,29,352 | | |
| | Grand Total | ... | ... | ... | ... | ... | | 6,764 | 12,55,901 | | |
| Nimar Division 1st Class Forests. | Logs other than teak and sal | No. | ... | ... | ... | ... | ... | | 13 | | |
| | ditto bullock loads | ... | ... | .. | ... | ... | ... | | 13 | | |
| | Teak poles and pieces | No. | ... | ... | ... | ... | ... | | 777 | | |
| | ditto cart loads | ... | ... | ... | ... | ... | ... | | 6 | | |
| | Poles and pieces other than teak and sal | No. | ... | ... | ... | ... | | 63 | 4,463 | | |
| | ditto cart loads | ... | ... | ... | ... | ... | ... | | 1,553 | | |
| | ditto head loads | ... | ... | ... | ... | .. | ... | | 2,883 | | |
| | ditto joti loads | ... | ... | ... | ... | ... | ... | | 7 | | |
| | dltto 4 bullock cart loads | ... | ... | ... | ... | ... | ... | | 1 | | |
| | ditto bullock loads | ... | ... | ... | ... | ... | ... | | 73 | | |
| | Building wood | No. | ... | ... | ... | ... | ... | | 19 | | |
| | ditto cart loads | ... | ... | ... | ... | ... | ... | | 12 | | |
| | ditto head loads | ... | ... | ... | ... | ... | ... | | 708 | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Firewood cart loads | ... | ... | ... | ... | ... | ... | 10,935 |
| | ditto head loads | ... | ... | ... | ... | ... | ... | 910 |
| | ditto bullock loads | ... | ... | ... | ... | ... | ... | 560 |
| | Charcoal cart loads | ... | ... | ... | ... | ... | ... | 3 |
| | ditto head loads | ... | ... | ... | ... | ... | ... | 233 |
| | ditto poney loads | ... | ... | ... | ... | ... | ... | 4 |
| | dltto bullock loads | ... | ... | ... | ... | ... | ... | 14 |
| | ditto donkey loads | ... | ... | ... | ... | ... | ... | 295 |
| | Bamboos | No | ... | ... | ... | ... | ... | 501,149 |
| | ditto material | ,, | ... | ... | ... | ... | ... | 17 |
| | Bamboos cart loads | ... | ... | ... | ... | ... | ... | 546 |
| | ditto head loads | ... | ... | ... | ... | ... | ... | 6,893 |
| | Bamboo branches head loads | ... | ... | ... | ... | ... | ... | 274 |
| | Bamboo materials head loads | .. | ... | ... | ... | ... | ... | 4 |
| | **Total** | ... | ... | ... | ... | ... | 63 | 5,32,365 |
| **Nimar District Forests** .. | Logs other than teak and sal | No. | ... | ... | ... | ... | ... | 1 |
| | ditto cart loads | .. | ... | ... | ... | ... | ... | 36 |
| | Teak poles and pieces | No. | ... | ... | ... | ... | ... | 7 |
| | Poles and pieces other than teak and sal | ,, | ... | ... | ... | ... | ... | 183 |
| | Ditto cart loads | ... | ... | ... | ... | ... | ... | 1,309 |
| | Ditto head loads | ... | ... | ... | ... | ... | ... | 744 |
| | Ditto bullock loads | ... | .. | ... | ... | ... | ... | 121 |
| | Building wood cart loads | ... | ... | ... | ... | ... | ... | 79 |
| | Ditto head loads | ... | ... | ... | ... | ... | ... | 97 |
| | Ditto bullock loads | ... | ... | ... | ... | ... | ... | 2 |
| | Firewood cart loads | ... | ... | ... | ... | ... | ... | 6,935 |
| | Ditto head loads | .. | ... | ... | ... | ... | ... | 108 |
| | Ditto bullock loads | .. | ... | ... | ... | ... | ... | 2,373 |
| | Ditto poney loads | ... | ... | ... | ... | ... | ... | 148 |
| | Charcoal cart loads | .. | ... | ... | ... | ... | ... | 3 |
| | Ditto head loads | ... | ... | ... | ... | ... | ... | 623 |
| | Ditto poney loads | .. | ... | ... | ... | ... | ... | 22 |
| | Ditto donkey loads | ... | ... | ... | ... | ... | ... | 84 |
| | Bambus | No. | ... | ... | ... | ... | ... | 75 |
| | Ditto cart loads | ... | ... | ... | ... | ... | ... | 1,453 |
| | Ditto head loads | ... | ... | ... | ... | ... | ... | 596 |
| | Ditto bullock loads | ... | ... | ... | ... | ... | ... | 11 |
| | Ditto poney load | ... | ... | ... | ... | ... | ... | 1 |
| | **Total** | ... | ... | ... | ... | ... | ... | 15,011 |
| | **Grand Total** | ... | ... | ... | ... | ... | 63 | 5,47,376 |

## Form No. 54.—Prescribed.—(Contd).

| | Description of materials. | | Outturn. | | | | | | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Selection fellings. | Clearances. | Thinnings. | Total. | Removed by— Government Agency. | | Purchasers. | Fee grants. | Right holders. | |
| | | | | | | | No. | Cft. | | | | |
| Chanda Division First Class Forests. | Teak logs | No. | ... | ... | ... | ... | 2,274 | 30,733 | 1 | | | |
| | Logs other than teak and sal | No. | ... | ... | ... | ... | ... | ... | 237 | | | |
| | Teak Broad gauge sleepers | ... | ... | ... | ... | ... | 7,650 | 26,560 | ... | | | |
| | Teak sleepers 3 ×5 ×5 | ... | ... | ... | ... | ... | 3,952 | 2,054 | ... | | | |
| | Ditto $3\frac{1}{2}$ ×5 ×5 | ... | ... | ... | ... | ... | 982 | 594 | ... | | | |
| | Ditto $3\frac{1}{2}$ ×5 ×3 | ... | ... | ... | ... | ... | 64 | 23 | ... | | | |
| | Ditto 3 ×3 ×3 | ... | ... | ... | ... | ... | 36 | 6 | ... | By conversion of timber on stock. | | |
| | Pieces of sleepers | ... | ... | ... | ... | ... | 1,425 | 648 | ... | | | |
| | Teak furdays | ... | ... | ... | ... | ... | 636 | 476 | ... | | | |
| | Teak scantlings | ... | ... | ... | ... | ... | 3,642 | 1,646 | ... | | | |
| | Pieces of scantlings | ... | ... | ... | ... | ... | 724 | 534 | ... | | | |
| | Teak planks | ... | ... | ... | ... | ... | 24 | 25 | ... | | | |
| | Different wood props | ... | ... | ... | ... | ... | 5,064 | 17,384 | ... | | | |
| | Poles and pieces other than teak and sal | No. | ... | ... | ... | ... | 3,019 | ... | 51,568 | | | |
| | Ditto Head loads | ... | ... | ... | ... | ... | ... | ... | 513 | | | |
| | Ditto Kawar loads | ... | ... | ... | ... | ... | ... | ... | 3 | | | |
| | Firewood cart loads | ... | ... | ... | ... | ... | ... | ... | 4,067 | | | |
| | Ditto head loads | ... | ... | ... | ... | ... | ... | ... | 1,620 | | | |
| | Charcoal cart loads | ... | ... | ... | ... | ... | ... | ... | 25 | | | |
| | Ditto head loads | ... | ... | ... | ... | ... | ... | ... | 736 | | | |
| | Ditto kawar loads | ... | ... | ... | ... | ... | ... | ... | 823 | | | |
| | Bambus | No. | ... | ... | ... | ... | 1,414 | ... | 4,54,319 | | | |
| | Bambu materials | No. | ... | ... | ... | ... | ... | ... | 11,13,965 | | | |
| | Bamboo materials cart loads | ... | ... | ... | ... | ... | ... | ... | 200 | | | |
| | Ditto head loads | ... | ... | ... | ... | ... | ... | ... | 2 | | | |
| | Ditto donga load | ... | ... | ... | ... | ... | ... | ... | 1 | | | |
| | Total | ... | ... | ... | ... | ... | 30,906 | 80,683 | 16,28,080 | | | |
| Seoni Division, First Class Forests. | Teak trees | No. | ... | ... | ... | ... | ... | .. | 1 | | | |
| | Trees other than teak and sal | No. | ... | ... | ... | ... | ... | .. | 77 | | | |
| | Building wood | No. | ... | ... | ... | ... | ... | ... | 4,085 | | | |
| | Ditto head loads | ... | ... | ... | ... | ... | ... | ... | 39 | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Teak poles and pieces | No. | ... | ... | ... | ... | | 5 | 163 | |
| | Ditto cart loads | ... | ... | ... | ... | ... | ... | | 92 | |
| | Poles and pieces other than teak and sal | No. | ... | ... | ... | ... | | 1 | 11,133 | |
| | Ditto cart loads | ... | ... | ... | ... | ... | | 12 | ... | |
| | Firewood cart loads | ... | ... | ... | ... | ... | | 21 | 13,549 | |
| | Ditto head loads | ... | ... | ... | ... | ... | ... | | 5,313 | |
| | Ditto kawar loads | ... | ... | ... | ... | ... | ... | | 22 | |
| | Charcoal kawar load | ... | ... | ... | ... | ... | ... | | 1 | |
| | Ditto head load | ... | ... | ... | ... | ... | ... | | 1 | |
| | Bambus | No. | ... | ... | ... | ... | | 41,114 | 9,86,596 | |
| | Ditto cart loads | ... | ... | ... | ... | ... | ... | | 280 | |
| | Total | ... | ... | .. | .. | ... | | 41,153 | 10,21,350 | |
| Seoni district Forests. | Teak trees | No. | ... | ... | ... | ... | ... | | 382 | |
| | Trees other than teak and sal | No. | ... | ... | ... | ... | ... | | 74 | |
| | Building wood | No. | ... | ... | ... | ... | ... | | 4,228 | |
| | Ditto cart loads | ... | ... | ... | ... | ... | ... | | 727 | |
| | Ditto head loads | ... | ... | ... | ... | ... | ... | | 9,434 | |
| | Logs other than teak and sal | No. | ... | ... | ... | ... | ... | | 319 | |
| | Teak poles and pieces | No. | ... | ... | ... | .. | ... | | 9,546 | |
| | Ditto cart loads | ... | ... | ... | ... | ... | ... | | 9 | |
| | Poles and pieces other than teak and sal | No. | ... | ... | ... | ... | ... | | 10,304 | 163 |
| | Ditto cart loads | ... | ... | ... | ... | ... | ... | | 19 | |
| | Difto head loads | ... | ... | ... | ... | ... | ... | | 1,052 | |
| | Firewood | No. | ... | ... | ... | ... | ... | | 210 | |
| | Ditto caat loads | ... | ... | ... | ... | ... | ... | | 6,012 | |
| | Ditto head loads | ... | .. | ... | ... | ... | ... | | 38,324 | |
| | Charcoal csrt loads | ... | ... | ... | ... | ... | ... | | 177 | |
| | Ditto head loads | ... | ... | ... | ... | ... | ... | | 8,810 | |
| | Bambus | No. | ... | ... | ... | ... | ... | | 2,58,493 | |
| | Ditso cart loads | ... | ... | ... | ... | ... | ... | | 13 | |
| | Ditto head loads | .. | ... | ... | ... | ... | ... | | 3,536 | |
| | Total | ... | ... | ... | ... | ... | ... | | 3,51,669 | 163 |
| | Grand Total | ... | ... | ... | ... | ... | | 41,153 | 13,73,019 | 163 |
| Division For- | Trees other than teak and sal | No. | ... | ... | ... | ... | ... | | 6 | |
| | Logs other than teak sal | No. | ... | ... | ... | ... | ... | | 5 | |
| | Building wood head loads | ... | ... | ... | ... | ... | ... | | 5 | |
| | Teak poles and pieces | No. | ... | ... | ... | ... | | 7 | 404 | |
| | Ditto cart loads | ... | ... | ... | ... | ... | ... | | 10 | |
| | Ditto head loads | ... | ... | ... | ... | ... | ... | | 13 | |

## Form No. 54—Contd.

| | Description of materials. | Outturn— | | | | | | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Selection fellings. | Clearances. | Thinnings. | Total. | Removed by | | | | |
| | | | | | | Government agency. | Purchasers. | Free grants. | Right holders. | |
| | | | | | | No. C. ft. | | | | |
| Sangor Division, 1st Class Forest—contd. | Poles and pieces other than teak and sal No... | ... | ... | ... | ... | 69 | 2,376 | | | |
| | Do. cart loads ... | ... | ... | ... | ... | ... | 4 | | | |
| | Firewood do. ... | ... | ... | ... | ... | ... | 706 | | | |
| | Do. head loads ... | ... | ... | ... | ... | ... | 1,646 | | | |
| | Do. donkey loads ... | ... | ... | ... | ... | ... | 176 | | | |
| | Do. buffalo loads ... | ... | ... | ... | ... | ... | 78 | | | |
| | Do. poney loads ... | ... | ... | ... | ... | ... | 87 | | | |
| | Do. basket loads ... | ... | ... | ... | ... | ... | 519 | | | |
| | Do. oxen loads ... | ... | ... | ... | ... | ... | 14 | | | |
| | Charcoal cart load ... | ... | ... | ... | ... | ... | 1 | | | |
| | Do. head loads ... | ... | ... | ... | ... | ... | 722 | | | |
| | Do. buffalo loads ... | ... | ... | ... | ... | ... | 68 | | | |
| | Bamboos No... | ... | ... | ... | ... | ... | 9,407 | | | |
| | Do. head loads ... | ... | ... | ... | ... | ... | 4 | | | |
| | Total ... | ... | ... | ... | ... | 76 | 16,251 | | | |
| Saugor District Forests. | Teak trees No. ... | ... | ... | ... | ... | ... | 2 | | | |
| | Trees other than teak and sal „ ... | ... | ... | ... | ... | ... | 113 | | | |
| | Logs other than teak and sal „ ... | ... | ... | ... | ... | ... | 3 | | | |
| | Building wood „ ... | ... | ... | ... | ... | ... | 685 | | | |
| | Do. cart loads ... | ... | ... | ... | ... | ... | 1,306 | | | |
| | Do. head loads ... | ... | ... | ... | ... | ... | 24,639 | | | |
| | Do. buffalo loads ... | ... | ... | ... | ... | ... | 712 | | | |
| | Do. yoke loads ... | ... | ... | ... | ... | ... | 15 | | | |
| | Teak poles and pieces No. ... | ... | ... | ... | ... | ... | 1,607 | | | |
| | Do. lots ... | ... | ... | ... | ... | ... | 2 | | | |
| | Do. head loads ... | ... | ... | ... | ... | ... | 2 | | | |
| | Poles and pieces other than teak and sal No.... | ... | ... | ... | ... | ... | 1,585 | | | |
| | Do. do. cart loads ... | ... | ... | ... | ... | ... | 8 | | | |
| | Do. do. head loabs ... | ... | ... | ... | ... | ... | 5 | | | |
| | Firewood, cart loads ... | ... | ... | ... | ... | ... | 24,705 | | | |
| | Do. head loads ... | ... | ... | ... | ... | ... | 61,674 | | | |
| | Do. buffalo loads ... | ... | ... | ... | ... | ... | 7,568 | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Do. pieces | No. | ... | ... | ... | ... | ... | 2 |
| | Do. bangy loads | | ... | ... | ... | ... | ... | 1 |
| | Do. yoke loads | | ... | ... | ... | ... | ... | 2 |
| | Charcoal, cart loads | | ... | ... | ... | ... | ... | 77 |
| | Do. head loads | | ... | ... | ... | ... | ... | 6,675 |
| | Do. buffalo loads | | ... | ... | ... | ... | ... | 616 |
| | Bamboos | No. | ... | ... | ... | ... | ... | 1,78,675 |
| | | Total | ... | ... | ... | ... | ... | 3,10,679 |
| | | Grand Total | ... | ... | ... | ... | 76 | 3,26,930 |
| Wardha Division 1st Class Forests. | Teak pieces and poles | | ... | ... | ... | ... | 5 | ... |
| | Firewood, cart loads | | ... | ... | ... | ... | 127 | 621 |
| | Do. head loads | | ... | ... | ... | ... | ... | 1,692 |
| | Do. kawar loads | | ... | ... | ... | ... | ... | 597 |
| | Do. bullock loads | | ... | ... | ... | ... | ... | 162 |
| | Do. maunds | | ... | ... | ... | ... | 1,249 | ... |
| | Do. bundles | | ... | ... | ... | ... | 2 | ... |
| | | Total | ... | ... | ... | ... | 1,383 | 3,072 |
| Wardha District Forests. | Trees other than teak and sal | No. | ... | ... | ... | ... | 3 | ... |
| | Teak poles and pieces | ,, | ... | ... | ... | ... | 795 | ... |
| | Poles and pieces other than teak and sal | ,, | ... | ... | ... | ... | 207 | 137 |
| | Do. | cart loads | ... | ... | ... | ... | 4 | 622 |
| | Do. | head loads | ... | ... | ... | ... | ... | 231 |
| | Firewood, cart loads | | ... | ... | ... | ... | 134 | 1,459 |
| | Do. head loads | | ... | ... | ... | ... | 21 | 1,759 |
| | Do. kawar loads | | ... | ... | ... | ... | ... | 323 |
| | Do. bullock loads | | ... | ... | ... | ... | ... | 283 |
| | | Total | ... | ... | ... | ... | 1,164 | 4,814 |
| | | Grand Total | ... | ... | ... | ... | 2,547 | 7,886 |
| ts | Trees other than teak and sal | No. | ... | ... | ... | ... | ... | 64 |
| | Teak poles and pieces | ,, | ... | ... | ... | ... | ... | 135 |
| | Poles and pieces other than teak and sal | ,, | ... | ... | ... | ... | ... | 95,425 |
| | Do. | cart loads | ... | ... | ... | ... | ... | 258 |
| | Do. | head loads | ... | ... | ... | ... | ... | 306 |
| | d peices | No. | ... | ... | ... | ... | ... | 482 |
| | rt loads | | ... | ... | ... | ... | ... | 12,044 |
| | l loads | | ... | ... | ... | ... | ... | 14,756 |
| | | No. | ... | ... | ... | ... | ... | 1,03,806 |
| | ls | | ... | ... | ... | ... | ... | 20 |
| | | Total | ... | ... | ... | ... | ... | 2,27,296 |

## Form No. 54, Prescribed—(Contd.)

| | Description of materials. | Outturn— | | | | | | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Selection fellings. | Clearances. | Thinnings. | Total. | Removed by | | | | |
| | | | | | | Government agency. | Purchasers. | Free grants. | Right holders. | |
| | | | | | | No. C. ft. | | | | |
| Damoh District Forests. | Trees other than teak and sal No. .. | ... | ... | ... | ... | ... | 9 | | | |
| | Teak poles and pieces, cart loads ... | ... | ... | ... | ... | ... | 48 | | | |
| | Do. „ ... | ... | ... | ... | ... | ... | 3,279 | | | |
| | Do. yoke loads ... | ... | ... | ... | ... | ... | 26 | | | |
| | Poles and pieces other than teak and sal „ ... | ... | ... | ... | ... | ... | 12,816 | | | |
| | Do. bullock loads ... | ... | ... | ... | ... | ... | 14,284 | | | |
| | Do. head loads ... | ... | ... | ... | ... | ... | 47,419 | | | |
| | Do. yoke loads ... | ... | ... | ... | ... | ... | 49 | | | |
| | Building wood No. | ... | ... | ... | ... | ... | 126 | | | |
| | Firewood „ . | ... | ... | ... | .. | ... | 1 | | | |
| | Do. cart load ... | ... | ... | ... | ... | ... | 2,995 | | | |
| | Do. bullock loads ... | ... | ... | ... | ... | ... | 19,093 | | | |
| | Do. head loads ... | ... | ... | ... | ... | ... | 1,19,563 | | | |
| | Charcoal, cart loads ... | ... | ... | ... | ... | ... | 44 | | | |
| | Do. bullock loads ... | ... | ... | ... | ... | ... | 1,659 | | | |
| | Do. head loads ... | ... | ... | ... | ... | ... | 15,648 | | | |
| | Bamboos No. ... | ... | ... | ... | ... | ... | 7,485 | | | |
| | Do. cart load ... | ... | .. | ... | ... | ... | 1 | | | |
| | Do. bullock loads ... | ... | ... | ... | ... | ... | 4,061 | | | |
| | Do. head loads ... | ... | ... | ... | ... | ... | 11,163 | | | |
| | Total ... | ... | ... | ... | ... | ... | 2,59,769 | | | |
| Chhindwara District Forests. | Trees other than teak and sal ... | ... | ... | ... | ... | ... | 56 | | | |
| | Teak poles and pieces „ ... | ... | ... | ... | ... | ... | 263 | | | |
| | Poles and pieces other than teak and sal „ ... | ... | ... | ... | ... | ... | 45,376 | | | |
| | Do. cart loads ... | ... | ... | ... | ... | ... | 5,427 | | | |
| | Do. head loads ... | ... | ... | ... | ... | ... | 4,035 | | | |
| | Do. yoke loads .. | ... | ... | ... | ... | ... | 1,625 | | | |
| | Firewood, cart loads ... | ... | ... | ... | ... | ... | 9,578 | | | |
| | Do. head loads ... | ... | ... | ... | ... | ... | 39,278 | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Do. pieces | No. | ... | ... | ... | ... | ... | 6 |
| | Do. yoke loads | | ... | ... | ... | ... | ... | 2,250 |
| | Do. donkey loads | | ... | ... | ... | ... | ... | 1,254 |
| | Do. banghy loads | | ... | ... | ... | ... | ... | 287 |
| | Do. buffalo loads | | ... | ... | ... | ... | ... | 12 |
| | Do. bullock loads | | ... | ... | ... | ... | ... | 1,637 |
| | Charcoal, cart loads | | ... | ... | ... | ... | ... | 6 |
| | Do. head loads | | ... | ... | ... | ... | ... | 2,873 |
| | Do. buffalo loads | | ... | ... | ... | ... | ... | 19 |
| | Do. bullock loads | | ... | ... | ... | ... | ... | 147 |
| | Bambus | No. | ... | ... | ... | ... | ... | 1,42,328 |
| | Do. head loads | | ... | ... | ... | ... | ... | 3 |
| | Do. materials | ,, | ... | ... | ... | ... | ... | 427 |
| | | Total | ... | ... | ... | ... | ... | 2,56,887 |
| Chhattisgarh Division, 1st Class Forests. | Bambus | No. | ... | ... | ... | ... | 408 | 7,482 |
| | | Total | ... | ... | ... | ... | 408 | 7,482 |
| Chhattisgarh Division, Raipur District Forests | Building wood, cart loads | | ... | ... | ... | ... | ... | 2,896 |
| | Do. head loads | | ... | ... | ... | ... | ... | 27,621 |
| | Firewood and charcoal, cart loads | | ... | ... | ... | ... | ... | 11,658 |
| | Do. head loads | | ... | ... | ... | ... | ... | 59,589 |
| | Bambus | No. | ... | ... | ... | ... | ... | 3,77,870 |
| | | Total | ... | ... | ... | ... | ... | 4,79,634 |
| | | Grand Total | ... | ... | ... | ... | 408 | 4,87,116 |
| Bhandara District Forest. | Teak golas and rafters | No. | ... | ... | ... | ... | 2,968 | ... |
| | Building wood | ,, | ... | ... | ... | ... | 650 | ... |
| | Common golas and rafters | ,, | ... | ... | ... | ... | 69,522 | ... |
| | Timber, 2 bullock cart loads | | ... | ... | ... | ... | ... | 737 |
| | Do. head loads | ,, | ... | ... | ... | ... | ... | 67 |
| | Do. | | ... | ... | ... | ... | ... | 1,026 |
| | Firewood, 4 bullock cart loads | | ... | ... | ... | ... | ... | 902 |
| | Do. 2 do. | | ... | ... | ... | ... | 48 | 27,428 |
| | Do. head loads. | | ... | ... | ... | ... | ... | 50,704 |
| | Bambus 4 bullock cart loads | | ... | ... | ... | ... | ... | 58 |
| | Do. 2 do. | | ... | ... | ... | ... | ... | 538 |
| | head loads | | ... | ... | ... | ... | ... | 1,884 |
| | | Total | ... | ... | ... | ... | 73,188 | 83,344 |

Form No. 54 Prescribed—(Contd.)

| ...n. | Description of materals. | Outturn. | | | | | | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Selection fellings. | Clearances. | Thinnings. | Total. | Removed by— | | | | |
| | | | | | | Government Agency. | | Purchasers. | Free grant. | Right holders. |
| | | | | | | No. | Cft. | | | |
| Balaghat District Forests. | Sal trees | ... | ... | ... | ... | 210 | ... | | | |
| | Tree other than teak and sal | ... | ... | ... | ... | 3 | ... | | | |
| | Sal sleepers No. | ... | ... | ... | ... | 206 | ... | | | |
| | Teak log ,, | ... | ... | ... | ... | 1 | ... | | | |
| | Firewood, cart loads | ... | ... | ... | ... | 364 | ... | | | |
| | Bambus ,, | ... | ... | ... | ... | 100 | ... | | | |
| | Total .. | ... | ... | ... | ... | 884 | ... | | | |

NOTE.—The headings indicating the nature of the cuttings from which the produce was obtained do not appear generally adapted to existing conditions in the Central Provinces.

# Annual Form No. 55.—Prescribed.

## FOREST DEPARTMENT, CENTRAL PROVINCES.

### Outturn of Minor Forest produce during the year 1886-87.

| Division, | Description of Produce. | Produce removed or utilized. | | | | | | | | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | By Government Agency. | | By purchasers. | | By free grants. | | By right holders. | | Total. | | |
| | | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | |
| | | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | |
| Mandla Division, 1st Class Forests. | Grazing buffaloes ... ... | ... | ... | 1,172 | 254 | | | | | | | |
| | Ditto cows ... ... | ... | ... | 11,680 | 1,527 | | | | | | | |
| | Ditto sheep ... ... | ... | ... | 42 | 3 | | | | | | | |
| | Ditto ponies ... ... | ... | ... | 12 | 1 | | | | | | | |
| | Grass poolas ... ... | 15,58,375 | 1,159 | 2,48,215 | 74 | | | | | | | |
| | Ditto bundles ... ... | ... | ... | 17,036 | 12 | | | | | | | |
| | Ditto head-loads ... ... | ... | ... | 49 | 1 | | | | | | | |
| | Ditto contract ... .. | ... | ... | ... | 189 | | | | | | | |
| | Hides No. | ... | ... | 34 | 26 | | | | | | | |
| | Skins No. | 7 | 15 | 27 | 17 | | | | | | | |
| | Other minor produce No. | 153 | 8 | 5 | ... | | | | | | | |
| | Ditto kawar loads ... ... | ... | ... | 212 | 22 | | | | | | | |
| | Ditto head-loads ... ... | ... | ... | 666 | 42 | | | | | | | |
| | Ditto bundles ... ... | ... | ... | 745 | 30 | | | | | | | |
| | Ditto contract ... ... | ... | ... | ... | 158 | | | | | | | |
| | Ditto maunds ... ... | 3,959 | 7,341 | ... | ... | | | | | | | |
| | Horns maunds ... ... | 17 | 86 | ... | ... | | | | | | | |
| | Total ... | 15,62,511 | 8,609 | 2,79,895 | 2,356 | | | | | | | |
| ...ivision, ...est. | Grazing buffaloes ... .. | ... | ... | 3,675 | 919 | | | | | | | |
| | Ditto cows and bullocks ... | ... | ... | 16,139 | 2,022 | | | | | | | |
| | Ditto sheep and goats ... ... | ... | ... | 607 | 19 | | | | | | | |
| | Grass cart loads ... ... | ... | ... | 455 | 61 | | | | | | | |
| | ...tto head loads ... ... | ... | ... | 744 | 12 | | | | | | | |
| | ...s No. | ... | ... | 97 | 3 | | | | | | | |
| | ... contract ... ... | ... | ... | ... | 8 | | | | | | | |
| | ... ... | ... | ... | 5 | 8 | | | | | | | |
| | ...ract ... ... | ... | ... | ... | 61 | | | | | | | |
| | ... No. | ... | ... | 1,000 | ... | | | | | | | |
| | ...luce contract ... | ... | ... | ... | 743 | | | | | | | |
| | Total .. | ... | ... | 22,722 | 3,856 | | | | | | | |

## Annual Form No. 55—Prescribed,—(Contd.)

| | Description of Produce. | Produce removed or utilized. | | | | | | | | | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | By Government Agency. | | By purchasers. | | By free grants. | | By right holders. | | Total. | | |
| | | Quantity. | Value. | Quatity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | |
| | | | Rs. | | Rs. | | Rs. | | Rs. | | Rs. | |
| Betul District Forests ... | Grazing buffaloes ... | ... | ... | 11,273 | 2,920 | | | | | | | |
| | Ditto cows and bullocks ... | ... | ... | 95,780 | 13,706 | | | | | | | |
| | Ditto sheep and goats ... | ... | ... | 24,115 | 459 | | | | | | | |
| | Ditto camels ... | ... | ... | 30 | 11 | | | | | | | |
| | Ditto asses ... | ... | ... | 91 | 17 | | | | | | | |
| | Grass cart loads ... | ... | ... | 3,377 | 634 | | | | | | | |
| | Ditto head loads ... | ... | ... | 26,019 | 681 | | | | | | | |
| | Ditto bullock loads ... | ... | ... | 3,047 | 277 | | | | | | | |
| | Ditto camel loads ... | ... | ... | 11 | 2 | | | | | | | |
| | Ditto pony load ... | ... | ... | 1 | ... | | | | | | | |
| | Horn head loads ... | ... | ... | 41 | 4 | | | | | | | |
| | Ditto bullock loads ... | ... | ... | 9 | 2 | | | | | | | |
| | Skins cart loads ... | ... | ... | 13 | 30 | | | | | | | |
| | Ditto head loads ... | ... | ... | 388 | 39 | | | | | | | |
| | Ditto bullock loads ... | ... | ... | 53 | 46 | | | | | | | |
| | Ditto contract ... | ... | ... | ... | 3 | | | | | | | |
| | Mineral products cart loads ... | ... | ... | 230 | 77 | | | | | | | |
| | Ditto head loads ... | ... | ... | 117 | 6 | | | | | | | |
| | Ditto bullock loads ... | ... | ... | 45 | 12 | | | | | | | |
| | Ditto ass loads ... | ... | ... | 165 | 9 | | | | | | | |
| | Other minor produce ... No. | ... | ... | 125 | 8 | | | | | | | |
| | Ditto cart loads ... | ... | ... | 80 | 13 | | | | | | | |
| | Ditto head loads ... | ... | ... | 2,081 | 125 | | | | | | | |
| | Ditto contract ... | ... | ... | ... | 9,124 | | | | | | | |
| | Ditto bullock loads ... | ... | ... | 77 | 71 | | | | | | | |
| | Ditto ass load ... | ... | ... | 1 | 1 | | | | | | | |